# NABIRA MAHAVIDYALAYA, KATOL ,
# DIST. NAGPUR ( MAHARASHTRA)

# 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

K.K. Chandak Marg, Dhantoli, Katol
Distt. Nagpur (M.S.) Pin - 441 302
Graduation & Post Graduation in
Arts, Commerce, Science & Management

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NAAC'S B++ Accredited College

Ref.No. :

Date : 09/11/2024

## DECLARATION

This is to declare that the information, reports, true copies and numerical data etc. furnished in this file as supporting documents are 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, Dist. Nagpur.

# Academic Calender

# Session – 2023-2024

# NABIRA MAHAVIDYALAYA, KATOL

## Academic Calendar 2023-24

### A) Academic Calendar for the Courses Conducted as per SEMESTER Pattern:

1. Terms & Vacation

| | |
|---|---|
| **First Term (Odd Sem)-** | 16.06.2023 to 31.10.2023 |
| **Winter Vacation** | 01.11.2023 to 30.11.2023 |
| | |
| **Second Term (Even Sem)-** | 01.12.2023 to 30.04.2024 |
| **Summer Vacation** | 02.05.2024 to 15.06.2024 |

2. Admissions

| | |
|---|---|
| **Last date of Admission (First Sem odd sem)** | 07.08.2023 |
| **Last date of Admission with prior permission of the Vice-Chancellor.** | 07.09.2027 |

(With reference to RTMNU Notification No. *Acad./Acad.Cale./2023/329* Dated 25/05/2023)

**Tentative Month wise Plan for the Session 2022-23**

**June**

Start of new academic session 16 June 2023

Admission Process 15th June to 21st July 2023 (May be extended as per RTMNU guideline)

Celebration of Rajashree Shahu Maharaj Jayanti on 26th June 2023.

**July**

Celebration of Vasant Rao Naik Jayanti on 1st July 2023.

Deeksharambh Students' Induction Programme (Principal's address)

Rakhi Making workshop by Home Economics department.

Tree plantation program by NSS and NCC Students

Celebration of Lokmanya Tilak Jayanti on 23rd July 2023.

**August**

Celebration of Sahityaratna Annabhau Sathe Jayanti on 1st Aug 2023.

Celebration of Krantuisingh Nanabhau Patil Jayanti on 3rd Aug 2023.

Bridge Course for First year Science Students from 1st August to 12th August by all departments of science faculty.

Celebration of National Independence Day on 15th Aug.

Tree plantation on 15th Aug by NSS and NCC departments.

Guest Lecture on Career Counselling on 18th Aug by Chemistry department.

Celebration of World photography Day on 19th Aug by Zoology department.

Celebration of Sad Bhavna Diwas on 20th Aug 2023.

Invited talk by eminent Scholar in the last week of Aug by Physics, Mathematics, Electronics, Microbiology, Zoology, English, Political Science and BBA departments.

Workshop on "Microprocessor" for students of Computer Science.

Workshop on Seed-Ball and Paper seed preparation by Botany department.

Program on Health based issues like Breastfeeding will be organized by Home Economics.

National Sports Day will be celebrated on 29th August by Department of Physical Education

One day programme on "Code of Conduct" for staff members by Internal Grievance Redressal Cell in the last week

Guest Lecture will be organized by Botany, Microbiology, Biotechnology, Political Science departments

A book Exhibition will be organized by Library department

A session on "How to Boost Employability" for students will be organized by Placement Cell

A guest lecture organised by alumni association.

**September**

Celebration of Teacher's Day (5th Sep)

Celebration of Raje Umaji Naik Jayanti on 7th September 2023

Celebration of Prabhodhankar Thakre Jayanti on 17th September 2023

NSS foundation Day will be organized on 24th September

Celebration of Bar. Sheshrao Wankhede Jayanti on 24th September 2023

Celebration of Pt Dindayal Upadhyay Jayanti on 25th September 2023

Conduction of 1stmonthly test by all departments in the last week (Semester Pattern)

Conduction of Mehendi competitions by Cultural Committee

Guest Lecture on Skill Development by Lifelong Learning and Extension Cell

Invited Talks by eminent subject experts in various departments

Parents Teachers Meet in the last week of September

Guest Lecture will be organized by Post Graduate Physics, Commerce, Marathi, Philosophy departments

Guest Lecture on Millets will be organized by Home Economics department in National Nutrition Week

Seminar on Medicinal Farming will be Organized by Botany departments

Quiz competition on World Ozone Day by Botany department

Study tour will be organized by Botany department

Students Seminar will be organized by Physics department

Scientific Models workshop will be organized by Zoology department

Remedial classes will be organized by Physics, Electronics, Zoology, History departments

Model Preparation for Avishkar Event by Electronics department

Swatcha Pani Janjagruti Campaign will be organized by department of Microbiology and Biotechnology in the Last week of September

Students workshop on recent topics will be organized by Political Science

Intercollegiate poster competition will be organized by English

To organize Management Games by BBA department

Cleaning Abhiyan in Katol city by NCC department

Personal Guidance Program on Competitive examination will be organized by Career Counselling Cell

A session on “How to apply for Jobs in Online mode” for students will be organized by Placement Cell

An awareness program on “Women’s Grievance” will be Organized by Redressal Committee

Parents-Teacher Association will organize a ‘Parents Teacher’ Meet for Science faculty

**October**

Celebration of Mahatma Gandhi and Lalbahadur Shastri birth Anniversary on 2nd October

Biofertilizer Awareness Rally will be organized in the 1st week by department of Microbiology and Biotechnology

Celebration of Maharshi Valmiki Jayanti on 9th October

College level Quiz competition will be organized on 9 October 2023 by Chemistry department

Celebration of Dr. APJ Kalam Jayanti (Vachan Prerana Din) on 15th October by Library departments

Intercollegiate Students Seminar will be organized on 18/10/2023 by Chemistry department National Integration Day (Indira Gandhi Punyatithi) will be Commemorated on 31st October

Industrial visit and Training program in industries will be organized by PG department of Chemistry

“Parents Meet” will be organized by Commerce department

Students Seminars will be organized by Physics, Chemistry, Mathematics, Electronics, Botany, Zoology departments

Model Preparation for Avishkar Event by Electronics department

Poetry Recitation program and Creative writing workshop will be organized by English department

Political Science department will organize a debate competition

An activity on “Best from E-waste” will be conducted by Computer Science department

Remedial Coaching will be organized by UG Chemistry, Physics, Maths, Zoology, Botany, Commerce departments

Guest Lecture will be organized by BBA, Microbiology and Biotechnology departments

Essay Competition will be organized by Marathi department

Conduction of 2nd Unit test (Semester Pattern) by various departments

A workshop on Career Counselling by reputed speakers will be organized Career Counselling Cell

Workshops on different skills under “Saksham” and a workshop for students’ awareness under “Unnati & Sanskar”, and visit to old age Club under “Sahyog” will be organized by Lifelong Learning and Extension Cell

“Rangoli Competition" by Cultural Committee

Workshop on skill development by capacity building and enhancement committee

BBA and humanities department will organise” Parent Teachers Meet”

Internal audit will be done by Internal Audit Committee.

**November**

Celebration of Pt Jawaharlal Nehru Jayanti on 14th November

Celebration of Birsa Munda Jayanti on 15th November

Celebration of Indira Gandhi Jayanti/ Rashtriya Ekatmata Din on 19th November

Model Preparation for Avishkar Event by Zoology department

Intercollegiate students’ seminar will be organized by English department

Winter Vacation as per RTMNU Schedule

University Examination as per RTMNU Schedule

“Yoga and Pranayama Shibir” will be organized by Sports department

“Traffic week” Program will be organized by NSS

Celebration of Samvidhan Diwas on 26th November

Skill development workshop by Capacity Building and Skill Enhancement Committee

**December**

“World AIDS` Day” awareness program will be organized on 1st December 2023 by NSS

Commemorate Mahaparinirvan Day on Dr. BabasahebAmbedkar organized on 6th Dec

Celebration of Sant Santaji Jagnade Maharaj Jayanti on 8th December 2023

Students Seminars on “Model Parliament” will be organized by Political Science department

A visit to Raman Science Centre on 23/12/2023 by Chemistry department

A visit to Religious Places by Philosophy department

Industrial visit will be conducted by Commerce department

University Examination as per RTMNU Schedule (For Regular students)

Celebration of Dr. Panjabrao Deshmukh Jayanti on 27th December 2023

A Guest Lecture and Students seminar will be organized by History

Awareness Quiz will be organized by Botany department on National Energy Conservation Day

A workshop on “Intellectual Property and Patent” will be organize by IPR Cell

Endowment Price Distribution Program will be organized by Endowment Committee

“Placement Drive” will be organized by Placement Cell

**January**

Celebration of Savitribai Fule Jayanti on 3rd January 2024

Celebration of Jijau Masaheb Jayanti and “National Youth Day” on 12th January 2024

Workshop on Jewellery Making will be organized by Home-Economics on 15th January 2024

Celebration of Netaji Subhashchandra Jayanti and Balasaheb Thakre Jayanti on 23rd January 2024

Study tour for students will be organized by Botany department

Workshop on Developing Career will be organized by Career Counselling Cell

Physics department will conduct National Graduation Physics Examination organized by IAPT

Participation of Science students in AVISHKAR event

Essay Writing Competition will be organized by English department

“National Voters Day Program” will be organized by Political Science department

Lab visit and educational visit will be conducted by Microbiology and Biotechnology departments

Guest Lecture will be organized by Physics PG, Chemistry, Zoology, Computer Science departments

“Commerce Exhibition” will be organized by Commerce department

E-Learning Guidance Program will be organized by Library department

Nature Club activity will be organized by Zoology department

Marathi Bhasha Savardhan Pandharwada will be organized by Marathi department

Republic Day celebration on 26th January 2024

Blood donation camp on 26th January by Sports, NCC and NSS departments

Academic and Sports prize distribution on the occasion of Republic Day celebration

Annual College Day function by Cultural Committee

Skill Development workshop will be organized by Placement Cell and Home-Economics

Alumni Meet

**February**

Organization of Conferences/ Seminars by Committee

Celebration of Sant Sevalal Maharaj Jayanti on 15th February 2024

Celebration of Chhatrapati Shivaji Maharaj Jayanti on 19th February 2024

Celebration of Sant Gadgebaba and Sant Ravidas Maharaj Jayanti on 23th February 2024

World Cancer Day Celebration will be organized by Zoology department

Marathi Bhasha Gaurav Divas will be celebrated by Marathi department

"Annual Special Camp" will organize by NSS

One day workshop on IPR and Patents will be organized by Library department

Poster Presentation will be organized by Philosophy department

Guest Lecture will be organized by Maths, Electronics, BBA, Political Science and Commerce departments

Quiz competition on World Forestry Day and World Earth Water Day will be organized by Botany department

Quiz competition will be organized by Microbiology and Biotechnology departments

Students Seminars will be organized by Physics, Mathematics, Botany, Electronics and Commerce departments

A competition on Home Making items will be organized by Home-Economics

National Science Day will be celebrated by Science Faculty on 28th Feb 2024

Parents-Teacher Association will organize a 'Parents Teacher' Meet for Science Faculty

Skill development workshop for student Capacity Building Skilled Enhancement Committee.

**March**

National conference and Seminar will be organized by Committee

Celebration of Yashwant Rao Chavhan Jayanti on 12th March 2024

Conduction of Unit test for even Semester classes by all departments

Remedial classes will be conducted by various departments

"Maza Varg Mich Vakta" activity will be organized by Commerce department

"Women's Day" will be celebrated by NSS

World Wild life Day will be celebrated by Zoology department

Cottage Industry visit will be conducted by Microbiology and Biotechnology departments

Program on "Shahid Din" on 23rd March 2024

Students Seminars will be organized by Computer Science department

A workshop on Safety and Security of Lab will be organized on 16/03/2024 by Chemistry department

A seminar on "Personality Development" will be organized by Career Counselling Cell

Debate Competition will be organized by Cultural Committee

Commerce department will organize a "Parents' Meet"

Guest lecture on World Consumer Day will be organized by Home-Economics

BBA and humanities department will organise Parent Meet

**April**

Seminars for teachers under faculty improvement program

Celebration of Mahatma Jyotiba Fule Jayanti on 11th April 2024

Celebration of Dr. Babasaheb Ambedkar Jayanti on 14th April 2024

Conduction of Unit test for even Semester classes

Poster Presentation will be organized by Physics PG department

University Examination as per RTMNU Schedule (For failure/ Odd Semester)

Commencement of University summer exam. regular even semester students

Celebration of Rashtrasant Tukdoji Maharaj Jayanti on 30th April 2024

Annual audit will be done by Internal Audit Committee

**Term II ends**

**May**

University Examination as per RTMNU Schedule (for Regular/ Even Semester)

Summer Vacation as per RTMNU direction

Celebration of Mahatma Basaveshwar Jayanti on 3rd May 2024

Celebration of Dahashatvad and Hinsachar Virodhi Din on 21st May 2024

Celebration of Mahatma Pratapsingh Jayanti on 25th May 2024

Celebration of Swatantraveer Sawarkar Jayanti on 28th May 2024

Celebration of Ahilyadevi Holkar Jayanti on 31st May 2024

**Note:- Above schedule is tentative and changes will be made as per the RTMNU directions.**

# Syllabus Completion Review Meetings
# Session- 2023-2024

Page No.
Date: 31/10/2023

A meeting of senior college teachers was convened on Tuesday, 31st of October 2023 to discuss the following agenda.

1) Syllabus Completion Status
2) AQAR data submission

Following teachers were present in the meeting.

1) Dr. S. K. Navin —
2) Dr. B. B. Kalbande —
3) Dr. I. H. Dhadade
4) Dr. R. G. Gonzale
5) Dr. V. G. Barsagade —
6) a. d. borkar
7) Dr. A. B. Sharma —
8) Dr. R. R. Dhote —
9) Dr. R. R. Rathod —
10) Dr. D. D. Ghugarkande —
11) P. V. Salame —
12) Dr. B. P. Walondse —
13) Dr. Ramesh Ingole —
14) K. A. More —
15) S. B. Behniya —
16) S. R. Gakhare —
17) N. G. Badhao —
18) M. S. Jadhao —
19) Jayant Kolambhe —
20) V. R. Varjani —
21) Dhiraj K. Dhobale —
22) Dr. S. T. Bahadale —
23) Mr. H. Y. Kinkar —
24) S. V. Kolambe —

Page No.
Date : / /

25. N.V. Gandhare
26. N.B. Hiraulkar
27. P.S. Mahajan
28. Dr. Bharat S. Kadbe
29 V.R. Rule
30. T.Y. Pliondre.
31. M.P. Bulkunde
32. K.K. Sangale
33 D.M. Ridhorkar
34 H.N. Helonde
35. A.S. Chandak
36. Dr. R.S. Meshram
37. M.R. Meshram
38. Dr. T.S. Kheolkar
39. Dr. Y.P. Mahant
40. J.M. Patil
41. Falguni V. Kathole
42. Dr. K.R. Nakiru
43. Ku. P.P. Bajaderde
44. Mr. M.D. Zad
45. C.S. Rathod
46 Dr Y.P. Barbuddhe
47. Dr. M.Y. Raut
48 Mr. M.R. Dodke
49 Mr. N.T. Katre
50. Dr. P.N. Raut

Resolutions Taken :-

1) Those teachers who could not submitted their AQAR reports, agreed to submit complete report on 3/11/2023.
2) All the teachers have filled their syllabus completion status in a given performa.

NABIRA MAHAVIDYALAYA KATOL

Principal
Nabira Mahavidyalaya, Katol.

Page No.
Date : / /

A meeting of a senior college teachers was convened on Monday, 29th April 2024 by Staff Council to discuss the following agenda,-

1) Syllabus completion status for academic session 2023-24, even semester.
2) AQAR data submission.

Following members were present in the meeting,

1) Dr. S. K. Navin -
2) Dr. V. G. Bansagade -
3) Dr. Y. P. Mahant
4) J. M. Patil
5) Dr. R. S. Meshram
6) V. R. Ruikar
7) P. P. Bayaskar
8) K. K. Sangole.
9) Dr. K. R. Valvire
10) Ku. Falguni U. Kathole
11) M. R. Meshram
12) Dr. G. U. Khorgade
13) Dr. S. T. Bahadure
14) Dr. Bharat S. Kadbe
15) Mr. Shivcharan B. Behniye
16) Mr. Avinash H. Bhakte
17) Mr. S. V. Kalambe
18) Mr. H. Y. Kinkar
19) Mr. N. T. Katre

Date : / /

20. A. J. Borkar
21. B. P. Walondre 29.04.2024
22. P. V. Salame
23. I. H. Dhadde
24. Dr. R. G. Gonzale
25. Mr. V. R. Vanjari
26. Jayant Kalambhe
27. Mukesh. S. Jadhao
28 S. R. Gakhar
29 Dr. R. R. Patlale
30 H. N. Helonde
31 C. S. Rathod
32) M. D. Zad
33) Dhiraj K. Dhotale
34) L. D. Giradkar
35) A. D. Wagh
36) Dr. Gurudas G. Nehare
37. K. A. More
38 N. G. Jadhao
39 - Dr. M. M. Veole

Resolution Taken :=>

1) Discussion was done on syllabus completion status for even semester academic session 2023-24.
2) All teachers submitted syllabus completion report and all are advised to complete their syllabus before due date they have suggested.
3) Review was taken on AQAR 22-23 data submission.

NAHIRA MAHAVIDYALAYA KATOL

Principal
Nahira Mahavidyalaya, Katol.

# Action Plan

# Time Table

# Departmental Meetings

# Teaching Plan

# Session -2023-2024

# DEPARTMENT OF PHYSICS,NABIRA MAHAVIDYALAYA , KATOL

## ACTION PLAN FOR SESSION: 2023-2024

1. Bride Course Programme for First year Students followed by Deeksharambh Programme in July 2023
2. To organize Guest lecture/ Invited talk by eminent Scholar in August- September in hybrid mode
3. Evaluation of students by conducting Unit tests / Assignments for each class in September and October
4. To organize students' Seminar for Semester V students in September 2023
5. To organize classes for slow learner and guidance for fast learner in September and October for Semester III and V
6. To organize students' Seminar for Semester III students in October 2023
7. To conduct National Graduation Physics Examination in Jan 2024 organized by IAPT
8. To organize students' Seminar for Semester II students in Jan- Feb 2024
9. Participation of Students in Science Day Programs in Feb 2024
10. To organize classes for slow learner and guidance for fast learner in Feb and March for Semester II and IV
11. Evaluation of students by conducting Unit tests / Assignments for each class in March 2024
12. Effective communication about recent articles in Physics throughout the session
13. Participation of students in activities organized by various Organizations/Association related to Physics, e.g., VUPTA Seminar, Avishkar, Inter Collegiate Quiz Competition etc. as per respective schedule
14. To disseminate PDF of notes among the students throughout the session
15. Participation as well as presentation of research paper in National/International conferences/Webinar by faculty members
16. Purchase of some Lab experimental set up to increase the existing set up

Head
Department of Physics
Head, Physics Deptt
Nabira Mahavidyalaya, Katol

## NABIRA MAHAVIDYALAYA, KATOL

## TEACHING PLAN- 2023-2024

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

Department: **Physics**

| Month | Class | Paper | Topics proposed to be covered |
|---|---|---|---|
| July | **B.Sc. Sem V** | II | Unit I: Quantum Mechanics |
| | **B.Sc. Sem III** | II | Admissions yet to Start |
| August | **B.Sc. Sem V** | II | Unit II : Quantum Mechanics |
| | **B.Sc. Sem III** | II | Unit I : Interference of light |
| September | **B.Sc. Sem V** | II | Unit III : Nanomaterials |
| | **B.Sc. Sem III** | II | Unit II : Diffraction of light |
| October | **B.Sc. Sem V** | II | Unit IV : Nanotechnology |
| | **B.Sc. Sem III** | II | Unit III : Polarization<br>Unit IV : EM Waves |
| 1st Nov. 2023 to 30th Nov 2023 : Dipawali Vacation | | | |
| Second Term (Even Semester) : 01/12/2023 to 30/04/2024 | | | |
| Dec | **B.Sc. Sem VI** | I | Unit I : Relativity |
| | **B.Sc. Sem IV** | I | Unit I : Solid state Physics |
| Jan | **B.Sc. Sem VI** | I | Unit II : Nuclear Physics |
| | **B.Sc. Sem IV** | I | Unit II : Solid state Physics |
| Feb | **B.Sc. Sem VI** | I | Unit III : Nuclear Physics |
| | **B.Sc. Sem IV** | I | Unit III : X- ray |
| Mar | **B.Sc. Sem VI** | I | Unit IV: Bio Physics |
| | **B.Sc. Sem IV** | I | Unit IV: LASER |
| April | **B.Sc. Sem VI** | I | Revision and Terminal Examination |
| | **B.Sc. Sem IV** | I | Revision and Terminal Examination |

(Dr. A.B.Sharma)
Asso. Prof. & Head
Department of Physics

## NABIRA MAHAVIDYALAYA, KATOL

## TEACHING PLAN- 2023-2024

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

Department: **Physics**

| Month | Class | Paper | Topics proposed to be covered |
|---|---|---|---|
| July | **B.Sc. Sem V** | I | Unit I: Atomic Physics |
| | **B.Sc. Sem III** | I | Admissions yet to Start |
| | **B.Sc. Sem I** | I | *Bridge Course Programme* |
| August | **B.Sc. Sem V** | I | Unit II : Free Electron Theory and Band Theory of Solids |
| | **B.Sc. Sem III** | I | Unit I : Waves in Media |
| September | **B.Sc. Sem V** | I | Unit III : Classical Statistical Physics |
| | **B.Sc. Sem III** | I | Unit II : Applied Acoustics |
| October | **B.Sc. Sem V** | I | Unit IV : Statistical Physics (Quantum) |
| | **B.Sc. Sem III** | I | Unit III : Ultrasonics<br>Unit IV : Power Supply |
| 1st Nov. 2023 to 30th Nov 2023 : Dipawali Vacation | | | |
| Second Term (Even Semester) : 01/12/2023 to 30/04/2024 | | | |
| Dec | **B.Sc. Sem VI** | II | Unit I : Amplifiers |
| | **B.Sc. Sem IV** | II | Unit I : Solid state electronics |
| Jan | **B.Sc. Sem VI** | II | Unit II : Fiber optics |
| | **B.Sc. Sem IV** | II | Unit II : Field Effect Transistor (FET) |
| Feb | **B.Sc. Sem VI** | II | Unit III : Communication |
| | **B.Sc. Sem IV** | II | Unit III : Molecular physics |
| Mar | **B.Sc. Sem VI** | II | Unit IV: Number Systems |
| | **B.Sc. Sem IV** | II | Unit IV: Raman Spectroscopy |
| April | **B.Sc. Sem VI** | II | Revision and Terminal Examination |
| | **B.Sc. Sem IV** | II | Revision and Terminal Examination |

(Dr. I.H.Dhadade)
Associate Professor

# NABIRA MAHAVIDYALAYA, KATOL

## TEACHING PLAN- 2023-2024

Name of the Teacher: **Mr. L.D.Giradkar**

Department: **Physics**

| Month | Class | Paper | Topics proposed to be covered |
|---|---|---|---|
| July | **B.Sc. Sem I** | I | Unit I- Elasticity and Bending of beam(Stress , strain, elastic limit, cantilever, bending moments) |
| August | **B.Sc. Sem I** | I | Unit II- Viscosity(viscosity, Bernoulli's theorem) |
| September | **B.Sc. Sem I** | I | Unit III- Surface tension, Laws of motion( surface tension, angle of contact, newtons law of motion ,reference frames) |
| October | **B.Sc. Sem I** | I | Unit IV-Mechanics( Centre of mass, collision, multistage rocket, theorems) |
| 1st Nov. 2023 to 30th Nov 2023 : Dipawali Vacation<br>Second Term (Even Semester) : 01/12/2023 to 30/04/2024 | | | |
| Dec | **B.Sc. Sem I** | I | Unit I-Simple harmonic motion and Damped Harmonic oscillation ( Harmonic motion and potential well, Lissajous figure, damping force, quality factor) |
| Jan | **B.Sc. Sem I** | I | Unit II-Forced oscillation and kinetic theory of gases( forced oscillation, sharpness of resonance, kinetic theory of gases, law of equipartition) |
| Feb | **B.Sc. Sem I** | I | Unit III- Transport Phenomenon in gases , Real gases and Vander Waals equation( viscosity , self-diffusion, Vander wails gas equation) |
| Mar | **B.Sc. Sem I** | I | Unit IV-Entropy and Joule Thomson Effect(entropy , joule Thomson effect ,porous plug experiment) |
| April | **B.Sc. Sem I** | I | Unit IV: Liquefication of gases, Air conditioning basics) |

Giradkar

(Mr. L.D.Giradkar)
Assistant Professor

CamScanner

# NABIRA MAHAVIDYALAYA, KATOL

## TEACHING PLAN- 2023-2024

Name of the Teacher: **Mr. A.D.Wagh**

Department: **Physics**

| Month | Class | Paper | Topics proposed to be covered |
|---|---|---|---|
| July | **B.Sc. Sem I** | II | Unit I-Electrostatics(Coloumbs Law,Field and Potential) |
| August | **B.Sc. Sem I** | II | Unit II-Dielectrics( Polarisation,Capacitors) |
| September | **B.Sc. Sem I** | II | Unit III- Time Varying Field(Magnetic Flux,Self Induction,Transformer)<br>Unit III- Electric Current ( Current Density ,LCR circuit) |
| October | **B.Sc. Sem I** | II | Unit IV- Ac Circuits(resistive circuit, capacitive circuit, LCR Circuit) |
| 1st Nov. 2023 to 30th Nov 2023 : Dipawali Vacation<br>Second Term (Even Semester) : 01/12/2023 to 30/04/2024 | | | |
| Dec | **B.Sc. Sem I** | II | Unit I- Gravitational ( Kepler's Law, gravitational field and potential) |
| Jan | **B.Sc. Sem I** | II | Unit II- Astrophysics(introduction to solar system, sun and its structure, milky way) |
| Feb | **B.Sc. Sem I** | II | Unit III- Magnetism ( Magnetic Materials, superconductors) |
| Mar | **B.Sc. Sem I** | II | Unit III and Unit IV( Ferromagnetism,ferrimagnetism,Magnetism) |
| April | **B.Sc. Sem I** | II | Unit IV: ( Biot Savarts law,ampers law) |

Awagh

(Mr. A.D.Wagh)
Assistant Professor

CamScanner

# NABIRA MAHAVIDYALAYA KATOL

## STAFF COUNCIL

### NOTICE

A meeting of senior college teachers is convened on Tuesday, 31st of October 2023 to discuss the following agenda;

1. Syllabus Completion Status
2. AQAR data submission

**Date: 30/10/2023**

**Chairman**

**Dr. S. K. Navin**

**Seeretory**

**Dr. B. B. Kalbande**

NABIRA MAHAVIDYALAYA KATOL.

# NABIRA MAHAVIDYALAYA KATOL

## STAFF COUNCIL

### NOTICE

A meeting of senior college teachers is convened on Saturday, 27th of April 2024 at 1.00 pm in AV Room to discuss the following agenda;

1. Syllabus Completion Status (UG & PG)
2. AQAR data submission

**Date: 27/04/2024**

**Chairman**
**Dr. S. K. Navin**

**Secretory**
**Dr. B. B. Kalbande**

**NOTE:** Each teacher should submit syllabus completion report in the following format,

**Session 2023-24 (~~Odd~~ Even Sem)**

**Date: 27/04/2024**

**Name of the Teacher:** _____

**Department:** _____

| Name of the Teacher | Name of the Department | UG /PG | Paper / Unit | % of Syllabus Completed | Approximate timeline for syllabus completion | Signature |
|---|---|---|---|---|---|---|
| | | | | | | |

NABIRA MAHAVIDYALAYA, KATOL

**Department of Physics (U.G.)**

Extent of Even Semester Syllabus completed as on 29/04/2024

(Session: 2023-24)

| S.N. | Name of the Teacher | Class | Paper | Percentage of the Syllabus Completed | Approximate time for Completion | Signature |
|---|---|---|---|---|---|---|
| 1. | Arpit D. Wagh | B.Sc. I | Paper II | 75% | 10th may | |
| 2. | Lukesh D. Giradkar | B.Sc I | Paper I | 85% | 7th may | |
| 3. | Dr. A.B.Sharma | B.Sc. II | Paper I | 95% | - | |
| | | B.Sc. III | Paper I | 95% | - | |
| 4. | Dr. I.H. Dhadade | B.Sc. II | Paper II | 65% | 10th May | |
| | | B.Sc. III | Paper II | 80% | 5th May | |

for IHDhadade

Head

Head, Physics Deptt.
Nabira Mahavidyalaya, Katol

# Nabira Mahavidyalaya Katol

## Time Table

## M.Sc. Physics Semester 1

## As per NEP 2020 (Choice based credit system) (Semester Pattern)

## Effective from 2023-2024

| Day/Time | 10.00-11.00 | 11.00-12.00 | 12.00-12.15 | 12.15-1.15 | 1.15-2.15 | 2.15-3.15 |
|---|---|---|---|---|---|---|
| Monday | ETP(YM) | EL | BREAK | MP | RM(YM) | RM(YM) |
| Tuesday | ETP(YM) | EL | | PR1 | | |
| Wednesday | ETP(YM) | EL | | PR2 | | |
| Thursday | ETP(YM) | MP | | SEMINAR | | |
| Friday | RM(YM) | MP | | SEMINAR | | |
| Saturday | RM(YM) | MP | | EL | TUTORIAL | |

**Co-Ordinator**

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

# NABIRA MAHAVIDYALAYA KATOL

## TIME TABLE

## M.SC(PHYSICS)

## 2nd SEMISTER(NEP)

**2023-24**

| 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) | | | SEMINAR | | |
| Tuesday | PRACTICAL 2(AW) | | | SPE(LG) | TUTORIAL | |
| Wednesday | CA(AW) | SP(YM) | SP(YM) | SPE(LG) | | |
| Thursday | CA(AW) | SPE(LG) | SP(YM) | CA(AW) | TUTORIAL | |
| Friday | CA(AW) | SP(YM) | SP(YM) | SPE(LG) | TUTORIAL | |
| Saturday | CA(AW) | SPE(LG) | SEMINAR | | | |

**Co-ordinator**

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

**NABIRA MAHAVIDYALAYA KATOL**
**TIME TABLE**
**M.SC(PHYSICS)**
**3rd SEMISTER**
2023-24

| 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) | | |

**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
2023-24

| 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**

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

**Nabira Mahavidyalaya, Katol**

**Post Graduate Department of Physics**

**Action Plan**

**Session 2023-24**

The monthwise action plan of the Post Graduate Department of Physics

| Sr.No. | Month | Activity |
|---|---|---|
| 1 | August | Work Shop |
| 2 | September | Guest Lecture |
| 3 | October | Webinar |
| 4 | November | Winter Vacation |
| 5 | January | Guest Lecture |
| 6 | February | Departmental Activity |
| 8 | March | Seminar Activity |
| 9 | April | Poster Presentation |

**Co-Ordinator**

(Dr. Y.P. Mahant)

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

8th Oct2023

# NOTICE

**Subject: Staff Meeting regarding syllabus completion**

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

Date: 10th October 2023

Time: 11.30 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. Katol

15th March 2024

# NOTICE

**Subject: Staff Meeting regarding syllabus completion**

All the staff members are 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: 18th March 2024

Time: 11.30 pm

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

Agenda:

1 Review of Syllabus Outline

2 Deadline for finalizing the syllabus.

3 Teaching methods and tools

4 Assessment Criteria

5 Finalization deadlines for completion of syllabus

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

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

### Name of teacher- Dr.Y.P. Mahant

### M.Sc. I: Semester - I

### Research Methodology

| Months | Units | Contents |
|---|---|---|
| Sep 23 | Unit 1 | Foundations of Research |
| Oct 23 | Unit 2/Unit 3 | Research Problem, Literature Review & Hypotheses, Research Design |
| Nov-Dec 24 | Unit 3/Unit 4 | Measurements, Ethics in Scientific Research |

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

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Dr.Y.P. Mahant**

**M.Sc. I: Semester - I**

**Experimental Technique in Physics**

| Months | Units | Contents |
|---|---|---|
| Sep 23 | Unit 1 | Radiation Sources, Detectors and Sensors<br>Different types of radiations, Sensor's characteristics |
| Oct 23 | Unit 2/Unit 3 | Thermal Analysis, Magnetic characterization |
| Nov-Dec 24 | Unit 3/Unit 4 | Dielectric properties, Spectroscopic characterization |

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

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Mr. Arpit D.Wagh**

**M.Sc. I : Semester - I : Mathematical Physics and Electronics**

| Months | Units | Contents |
|---|---|---|
| Sept 23 | Unit 1 | Fourier series and Fourier transform |
| Oct 23 | Unit 2 | Laplace and inverse Laplace transform |
| Nov 23 | Unit 1 | Semiconductor , semiconductor devices ,transistors, solar cell ,photovoltaic cell |
| Dec 23 | Unit 4 | Modulation , amplitude, phase and frequency |

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P.G.T.D. of Physics
N.M.V. Katol

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Mr. Lukesh D Giradkar**

**M.Sc. I : Semester - I : Mathematical Physics and Electronics**

| Months | Units | Contents |
|---|---|---|
| Sept 23 | Unit 3 | Matrices and Linear Vector spaces |
| Oct 23 | Unit 4 | Special functions |
| Nov 23 | Unit 2 | Amplifiers, oscillators , regulators |
| Dec 23 | Unit 3 | TTL- Cmos, Logics gates |

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P.G.T.D. of Physics
N.M.V. Katol

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Mr. Lukesh D Giradkar**

**M.Sc. I : Semester - II Complex Analysis and spectroscopy**

| Months | Units | Contents |
|---|---|---|
| Jan 24 | Unit 1 | Basic of complex numbers, C-R equation, Milne Thomson method |
| Feb 24 | Unit 2 | Contour integration,pole,residue,Cauchy theorem |
| March24 | Unit 1 | Hydrogen spectra, alkali spectra, coupling ,Zeeman effect |
| April 24 | Unit 4 | Rotational spectroscopy, IR spectroscopy, |

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

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

### Name of teacher- Dr.Y.P. Mahant

### M.Sc. I: Semester - II

### Statistical Physics

| Months | Units | Contents |
|---|---|---|
| Jan 24 | Unit 1 | Fundamentals of classical statistical mechanics, Liouville's theorem, Gibbs Paradox, ensembles |
| Feb 24 | Unit 2 | Fundamentals of quantum statistical mechanics, BE and FD Statistics, |
| March 24 | Unit 3 | Ideal Fermi system |
| April 24 | Unit 4 | Introduction to Phase Transitions |

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

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Mr. Arpit D.Wagh**

**M.Sc. I : Semester - II Numerical Methods and Spectroscopy**

| Months | Units | Contents |
|---|---|---|
| Jan 24 | Unit 3 | Methods to find roots, finite differences |
| Feb 24 | Unit 4 | Interpolation and integration rules , Simpsons ,trapezoidal |
| March24 | Unit 3 | Raman Spectroscopy, rotational-vibrational spectroscopy |
| April 24 | Unit 4 | NMR,ESR,EPR spectra |

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

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Dr.Y.P. Mahant**

**M.Sc. II: Semester - III**

**Material science I**

| Months | Units | Contents |
|---|---|---|
| Aug 23 | Unit 1 | Equilibrium and kinetics, Phase diagram |
| Sep 23 | Unit 2 and Unit 3 | Phase Transformation, Transformation Diagram, Diffusion in Solids |
| Oct 23 | Unit 3/Unit 4 | Solid state Ionics, Solid state energy devices |
| Nov-Dec 24 | Unit 4 | Lithium ion batteries |

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

# NABIRA MAHAVIDYALA,KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Mr. Arpit D.Wagh**

**M.Sc. II : Semester - III : Quantum mechanics-II**

| Months | Units | Contents |
|---|---|---|
| Aug 23 | Unit 1 | Time Dependent, Time Independent Perturbation Applications, He - atom Normal And analmous Zeeman Effect, Stark Effect, Oscillator |
| Sept 23 | Unit 2 | WKB Method, Variational principle, Fermi Golden Rule , Time Dependent Perturbation |
| Oct 23 | Unit 3 | System Of Identical Particle, Exchange Operator, Statics of System, Ortho, Parahelium Heitler-LONDON Theory |
| Nov-Dec 23 | Unit 4 | Relativistic Quantum Mechanics, K-G Equations, Dirac Theory, Spin -Orbit Interaction y |

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

# NABIRA MAHAVIDYALA,KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Mr. Lukesh D Giradkar**

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

| Months | Units | Contents |
|---|---|---|
| Aug 23 | Unit 1 | Crystalline solid, Liquid crystal, Geometrical structure factor & Reciprocal lattice |
| Sept 23 | Unit 2 | Defects, Dielectric properties of material Dislocations |
| Oct 23 | Unit 3 | Atomic structure atomic spectra, Franck Condon principle |
| Nov-Dec 23 | Unit 4 | Molecular structure & molecular spectra, ESR, NMR & Raman spectroscopy |

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

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Dr.Y.P. Mahant**

**M.Sc. II: Semester – III**

**Nanoscience and Nanotechnology**

| Months | Units | Contents |
|---|---|---|
| Aug 23 | Unit 1 | Introduction to Nanoscience |
| Sep 23 | Unit 2 | Nanomaterial Synthesis |
| Oct 23 | Unit 3 | Nanomaterial Characterization Atomic Force Microscopy, Vibration sample magnetometer |
| Nov -Dec 23 | 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 – 2023-24

**Name of teacher- Mr. Lukesh D Giradkar**

**M.Sc. II : Semester - IV: Solid States Physics**

| Months | Units | Contents |
|---|---|---|
| Jan 24 | Unit 1 | Bloch theorem. Tight binding theorem,brillaioun zones |
| Feb 24 | Unit 2 | Lattice vibration, Phonons |
| March 24 | Unit 3 | Free electron theory , semiconductors |
| April 24 | Unit 4 | superconductors |

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

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Dr.Y.P. Mahant**

**M.Sc. II: Semester - IV**

**Experimental Technique in Physics**

| Months | Units | Contents |
|---|---|---|
| Jan 24 | Unit 1 | Radiation Sources, Detectors and Sensors Different types of radiations, Sensor's characteristics, Classification of sensors |
| Feb 24 | Unit 2 | Structural Characterization and Thermal Analysis |
| March 24 | Unit 3 | Morphological and Magnetic Characterization, Optical Microscopy Electron Microscopy, Probe Microscopy. |
| April 24 | Unit 4 | Spectroscopic Analysis, Spectroscopic characterization, Fourier Transform Infra-Red, Ultraviolet-Visible. |

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

# NABIRA MAHAVIDYALA, KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Dr.Y.P. Mahant**

**M.Sc. II: Semester - IV**

**Material science II**

| Months | Units | Contents |
|---|---|---|
| Jan 24 | Unit 1 | Mechanical Response of Materials, Corrosion and degradation of materials, Spintronics and Photonics |
| Feb 24 | Unit 2 | Concept of Synthesis Synthesis of materials |
| March 24 | Unit 3 | Processing of materials, Structural Characterization |
| April 24 | Unit 4 | Structural determination by fluorescent analysis, Microscopic Techniques |

Mahant

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

# NABIRA MAHAVIDYALA,KATOL

## Department of PHYSICS

## Teaching Plan – 2023-24

**Name of teacher- Mr. Arpit D.Wagh**

**M.Sc. II : Semester - IV: Nuclear Physics**

| Months | Units | Contents |
|---|---|---|
| Jan 24 | Unit 1 | Mass, Mass defect , energy, q-Value, Nuclear models |
| Feb 24 | Unit 2 | Alpha,beta,gamma decay |
| March 24 | Unit 3 | Detectors, accelerators |
| April 24 | Unit 4 | Particle physics |

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

## DEPARTMENT OF CHEMISTRY
## NABIRA MAHAVIDYALAYA, KATOL

### ACTION PLAN FOR THE ACADEMIC YEAR 2023-24

1. It is proposed to increase the use of Audio-Visible Aids for effective teaching.

2. It is proposed to use the online techniques to prepare E-contents for the students.

3. It is proposed to Remedial Teaching for below average students.

4. It is proposed to arrange Class-Room Seminar for final year students.

5. It is proposed to form society to arrange guest lectures related to important events, visit to useful institutions etc..

6. It is proposed to arrange Inter-Collegiate students Seminars for students and encourage them to participate actively in such seminars arranged elsewhere.

7. It is proposed to arrange exhibition/poster competition for students and encourage them to participate actively in such events arranged elsewhere.

8. It is proposed to arrange workshop to make aware and handle the sophisticated instruments for teaching and non-teaching staff.

9. It is proposed to arrange workshop to understand good laboratory practices and safety for Non-teaching Laboratory stasff.

Head
Department of Chemistry
NabiraMahaidyalaya, Katol

Head, Chemistry Deptt
Nabira Mahavidyalaya, Katol

Shikshan Prasarak Mandal

NABIRA MAHAVIDYALAYA, KATOL

DIST. NAGPUR, M.S. (India)

Post Graduate Department of Chemistry

# ACTION PLAN

## SESSION-2023-24

- It is proposed to arrange Meetings of Mentor and Mentee.
- It is proposed to organize Student Seminars for M.Sc. Sem-I, Sem-II, Sem-III, and Sem-IV students.
- It is proposed to organize an Industrial Visit and training program in Industries for students.
- It is proposed to organize NET-SET-GATE Lecture Series in Chemical Science on the Birth Anniversary of Bhikulalji Nabira
- It is proposed to organize Workshop on Startup forstudents.
- It is proposed to organize Workshop on Laboratorytechniques
- It is proposed to organize Workshop on MicroscaleTechniques for students.
- It is proposed to organize Extra-Curricular activities for students

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

# NABIRA MAHAVIDYALAYA, KATOL
## DEPARTMENT OF CHEMISTRY
## TIME-TABLE
## 2023-2024

| 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/ NGJ) P-I/P-I | B.Sc. Sem V/VI (ADB/NVG) P-II/P-I | B.Sc. Sem V/VI ADB[3/3]+NVG[2/2]+NGJ[3/3]+KAM [2/2] | 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/ NGJ) P-I/P-I | B.Sc. Sem V/VI (ADB/NVG) P-II/P-I | B.Sc. Sem V/VI ADB[3/3]+NGJ[3/3]+ KAM [0/3] | 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/ NGJ) P-I/P-I | B.Sc. Sem V/VI (ADB/NVG) P-II/P-I | B.Sc. Sem III/IV NVG[3/3]+ADB[3/3]+NGJ[3/3]+KAM [3/3] | 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/KAM) P-II/P-II | B.Sc. Sem V/VI (NGJ/NGJ) P-I/P-II | B.Sc. Sem III/IV NVG[3/3]+NGJ[3/3]+KMA[3/3] | 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/KAM) P-II/P-II | B.Sc. Sem V/VI (NGJ/NGJ) P-I/P-II | B.Sc. Sem I/II NVG[3/3]+ADB[3/3]+NGJ[2/2]+KAM [3/3] +MMY[3/3] | 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/KAM) P-II/P-II | B.Sc. Sem V/VI (NGJ/NGJ) P-I/P-II | B.Sc. Sem I/II NVG[3/3]+ADB[3/3] NGJ[3/0]+KAM[3/3]+MMY[3/3] | B.Sc. Sem I/II [Non-Grant] |

| Class | Strength | Batches | Practical's | Theory | Total |
|---|---|---|---|---|---|
| 1. B.Sc. Sem I/II | – 78 | 05 | 30 | 06 | 36 |
| 2. B.Sc. Sem III/IV | – 52 | 03 | 18 | 06 | 24 |
| 3. B.Sc. Sem V/VI | – 51 | 03 | 18 | 06 | 24 |
| | | Total 66 | Total 18 | Total | 84 |

| Allotted Workload for Odd Sem | T | P | Total | Allotted Workload for Even Sem | T | P | Total |
|---|---|---|---|---|---|---|---|
| 1. Dr. A.D. Borkar | 03 | 15 | 18 | | 03 | 15 | 18 |
| 2. Shri. N.V. Gandhare | 06 | 14 | 20 | | 06 | 14 | 20 |
| 3. Shri. N,G. Jadhao | 03 | 17 | 20 | | 06 | 14 | 20 |
| 4. Shri. K.A. More | 06 | 14 | 20 | | 03 | 17 | 20 |
| 5. Dr. M.M.Yeole (CHB) | 00 | 06 | 06 | | 00 | 06 | 06 |

Total workload - 84
Allotment - 84

(A.D. Borkar)
Head, Department of Chemistry
N.M.V. Katol

Head, Chemistry Deptt
Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL

**Department of Chemistry**

**Academic Year-2023-2024**

**Notice** Date- 10/11/2023

It is kindly informed to all the faculty members that the meeting will be held on 11/11/2023 at 11: 00 am to discuss completion of syllabus of Sem- I, III, V .

All are requested to attend meeting positively.

for Deptt

**Head, Chemistry Deptt**
**Nabira Mahavidyalaya, Katol**

NABIRA MAHAVIDYALAYA, KATOL

**Department of Chemistry**

**Academic Year-2023-2024**

**Notice** Date- 29/04/2024

It is kindly informed to all the faculty members that the meeting will be held on 30/04/2023 at 11: 00 am to discuss completion of syllabus of Sem- II, IV, VI.

All are requested to attend meeting positively.

Head, Chemistry Deptt
Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA, KATOL

Department of Chemistry

Academic Year-2023-2024

Completion of Syllabus for B.Sc. Sem-I, II, III, IV, V, VI

| Sr. No. | Name of Teacher | Subject | Class | Paper | % of Syllabus Completed |
|---|---|---|---|---|---|
| 1. | Dr. A. D. Borkar | Chemistry | Sem-V | II | 98 % |
| 2. | Dr. N.V. Gandhare | Chemistry | Sem-I<br>Sem-III | I<br>I | 97 %<br>98 % |
| 3. | Mr. N. G. Jadhao | Chemistry | Sem-V | I | 98 % |
| 4. | Mr. K.A. More | Chemistry | Sem-I<br>Sem-III | II<br>II | 98 %<br>97 % |
| 5. | Dr. A. D. Borkar | Chemistry | Sem- IV | II | 98 % |
| 6. | Dr. N.V. Gandhare | Chemistry | Sem- IV<br>Sem-VI | I<br>I | 96 %<br>98 % |
| 7. | Mr. N. G. Jadhao | Chemistry | Sem- II<br>Sem-VI | II<br>II | 97 %<br>98 % |

Head, Chemistry Deptt
Nabira Mahavidyalaya, Katol

# Nabira Mahavidyalya, Katol

## Teaching Plan -2023-2024

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 | - | | Diwali and Winter Vacations |
| 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 |

Head, Chemistry Deptt
Nabira Mahavidyalaya, Kato

# Nabira Mahavidyalaya, Katol

## Teaching Plan -2023-2024

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. |

| 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 | Colorimetery and Spectrophotometery, 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 | | Revision |
| | B.Sc. Sem-VI | | Revision |

Head, Chemistry Deptt
Nabira Mahavidyalaya, Katol

# Nabira Mahavidyalya, Katol

## Teaching Plan -2023-2024

To be Submitted to the Teacher Appraisal Committee

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 Organomettalic Compounds |
| October | B.Sc. Sem-V | Unit- IV ( Chem P-I) | Electromagnetic Spectrum and 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) | Thermodyanamics |
| 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
Department of Chemistry
Nabira Mahavidyalaya, Katol

# Nabira Mahavidyalaya, Katol

## Teaching Plan -2023-2024

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,<br>Dicarboxylic acids,<br>Carboxylic Acid Derivatives,<br>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
Nabira Mahavidyalaya, Katol

# Nabira Mahavidyalaya, Katol

## Teaching Plan -2023-2024

To be Submitted to the Teacher Appraisal Committee

Name of Teacher: Mr. Hemant M. Alone  Dept: PG Department of Chemistry

Subject/Paper: Organic Chemistry  Class: M.Sc. Sem- III, Organic& Spectroscopy-I

Sem-II, Sem-IV, Organic & Spectroscopy-II

| Month | Subject | Unit | Topic to be covered |
|---|---|---|---|
| June | | | |
| July | M.Sc. Sem-III | Unit-I<br>Unit-II | Pericyclic Reactions<br>A) Oxidation<br>B) Reduction |
| August | M.Sc. Sem-III | Unit-I<br>Unit-II | Revision & Unit Test<br>Revision & Unit Test |
| September | M.Sc. Sem-III | Unit-IV | Chemistry of P, S, Si & Boron compounds |
| October | M.Sc. Sem-III<br>Spectrocopy-I | Unit-II | A) Mass Spectrometry<br>B) Mossbauer Spectroscopy |
| November | M.Sc. Sem-III<br>Spectroscopy-I | Unit-I | Symmetry properties of molecules & group theory |
| December | M.Sc. Sem-III | | Examination Revision |
| January | M.Sc. Sem-II<br>Organic<br>Chemistry | Unit-I | A) Addition to C-C Multiple bonds<br>B) Elimination Reaction |
| | M.Sc. Sem-IV<br>Spectroscopy | Unit-II | NMR Spectroscopy |

| | | | |
|---|---|---|---|
| February | M.Sc. Sem-II | Unit-II | Addition to carbon-hetero atom multiple bond |
| | M.Sc. Sem-IV | Unit -III | A) Advanced stereochemistry<br>B) Protection & Deprotection of functional group |
| March | M.Sc. Sem-II | | Examination Revision & Unit Test |
| | M.Sc. Sem-IV | Unit-IV | Designing the synthesis based on retrosynthetic analysis |
| April | M.Sc. Sem-II | Unit-IV | Molecular Rearrangement<br>Fragmentation Reactions |
| | M.Sc. Sem-IV<br>Spectroscopy-II | Unit-III | A) Application of NMR<br>B) Problem based on NMR Spectral data |
| May | M.Sc. Sem-II<br>M.Sc. Sem-IV | | Examination Revision |

NABIRA MAHAVIDYALAYA KATOL

Department of Chemistry

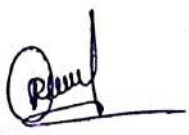
Teaching Plan 2023-24

M.Sc. Sem I & III

Inorganic Chemistry, Spectroscopy

Name of Teacher: - Rutuja B. Bowade

| Months | Class | Unit | Topic to be covered |
|---|---|---|---|
| August | M.Sc, -Sem I | Unit I | Electronic spectra and Mo theory of transition metal complex |
| | M.Sc, -Sem I | Unit II | Boron hydride, M-M bond |
| September | M.Sc, -Sem III | Unit III | 1) Microwave Spectroscopy<br>2) ESR Spectroscopy |
| | M.Sc, -Sem I | Unit III | 1)Metal -Ligand equilibria in<br>2) Reaction Mechanism TMC-I |
| October | M.Sc, -Sem I | Unit IV | 1) Metal Carbonyis<br>2) Metal Nitrosyl |
| November | M.Sc, -Sem III | Unit IV | 1) IR Spectroscopy<br>2) Raman Spectroscopy |



NABIRA MAHAVIDYALAYA, KATOL
DEPARTMENT OF **MATHEMATICS**

## ACTION PLAN FOR THE SESSION 2023-24

| Month | Activities |
|---|---|
| **July** | • Distribution of subjects to be taught among the faculty members<br>• Bridge Course for Freshers (UG)<br>• Preparation of teaching plans<br>• Commencement of regular class-room teaching for odd semesters |
| **August** | • To organize the Guest Lecture/Webinar<br>• Bridge Course for Freshers (PG)<br>• To make MOU with other institute.<br>• Unit Tests (Descriptive/ MCQ/ Open book) for internal assessment |
| **September** | • Students seminars<br>• Remedial Classes for slow learners<br>• Unit Tests (Descriptive/ MCQ/ Open book) for internal assessment<br>• Home assignments will be given to the students as a part of their internal assessment |
| **October** | • Unit Tests (Descriptive/ MCQ/ Open book) for internal assessment<br>• Students Seminars<br>• Submission of Home assignments by the students<br>• Remedial Classes for slow learners<br>• Preparation and submission of Internal assessment marks |
| **November** | --------- Winter-Vacation (1/11/2023 to 30/11/2023) -------- |
| **December** | • University Examination (Univ. Level/ College level) work<br>• National Mathematics Day Celebration |
| **January** | • University Examination (Univ. Level/ College level) work<br>• Commencement of regular class-room teaching for even semesters |
| **February** | • To organize the Guest Lecture/Webinar<br>• Students seminars<br>• Unit Tests (Descriptive/ MCQ/ Open book) for internal assessment<br>• Home assignments will be given to the students as a part of their internal assessment |
| **March** | • Home assignments will be given to the students as a part of their internal assessment<br>• Remedial Classes for slow learners<br>• International Mathematics Day Celebration<br>• Students seminars<br>• Unit Tests (Descriptive/ MCQ/ Open book) for internal assessment<br>• Submission of Home assignments by the students |
| **April** | • Preparation and submission of Internal assessment marks<br>• University Examination work |
| **May** | • Summer Vacation<br>• University Examination work |
| **June** | • Summer Vacation<br>• University Examination work |

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

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# NABIRA MAHAVIDYALAYA, KATOL

## DEPARTMENT OF MATHEMATICS

### TIME TABLE - UG: 2023-24

| Time → / Day ↓ | 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. III(T) (NTK) | B.Sc. III (NTK) | B.Sc. II (RBC) | B.Sc. I (RBC) | B.Sc. II (T) (NTK) | | |
| Tuesday | B.Sc. III(T) (NTK) | B.Sc. III (NTK) | B.Sc. II (RBC) | B.Sc. I (RBC) | B.Sc. II (T) (RBC) | | |
| Wednesday | B.Sc. II (NTK) | B.Sc. III (RBC) | B.Sc. II (RBC) | B.Sc. I (RBC) | B.Sc. I (NTK) | B.Sc. I (T) (NTK) | |
| Thursday | B.Sc. II (NTK) | B.Sc. III (RBC) | B.Sc. II (RBC) | B.Sc. I (RBC) | B.Sc. I (NTK) | B.Sc. I (T) (RBC) | |
| Friday | B.Sc. III (NTK) | B.Sc. III (NTK) | B.Sc. II (NTK) | B.Sc. I (NTK) | | | |
| Saturday | B.Sc. III (NTK) | B.Sc. III (NTK) | B.Sc. II (NTK) | B.Sc. I (NTK) | | | |

NTK : N.T. Katre

RBC : R.B. Chaware

Head

Department of Mathematics

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## Time table

# NABIRA MAHAVIDYALAYA, KATOL
## Department of Mathematics
## M.Sc Sem - I & III (2023-2024)

| Day | Time class | 9:00-10:00 | 10:00-11:00 | 11:00-12:00 | 12:00-12:15 | 12:15-01:15 | 01:15-02:15 |
|---|---|---|---|---|---|---|---|
| **Mon** | Sem-I | | PSG | MPP | | PRL | MPP |
| | **Sem-III** | **PRL** | **PRL** | **PSG** | | **MPP** | **PSG** |
| **Tue** | Sem-I | | PSG | MPP | | PRL | MPP |
| | **Sem-III** | **PRL** | **PRL** | **PSG** | B | **MPP** | **PSG** |
| **Wed** | Sem-I | | PSG | MPP | R | PRL | MPP |
| | **Sem-III** | **PRL** | **PRL** | **PSG** | E | **MPP** | **PSG** |
| **Thu** | Sem-I | | PSG | MPP | A | PRL | MPP |
| | **Sem-III** | **PRL** | **PRL** | **PSG** | K | **MPP** | **PSG** |
| **Fri** | Sem-I | | **RM(TH)** | **RM(P)** | | **C++(P)** | **C++(P)** |
| | **Sem-III** | **PRL** | **PRL** | **PSG** | | **PSG** | **MPP** |
| **Sat** | Sem-I | | **RM(TH)** | **RM(P)** | | **C++(P)** | **C++(P)** |
| | **Sem-III** | ------ | ------- | ------- | | ------ | ------ |

**Sem-I (Papers)**

Alg - PSG

Topo - MPP

ODE - MPP

IE - PRL

RM (TH) - NTK

RM (Practical) -

C++(Practical) -

**Sem-III (Papers)**

CA - PSG

FA - PSG

MM - PRL.

GR - PRL.

OR(I) - MPP

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# Time table

## NABIRA MAHAVIDYALAYA, KATOL

## Department of Mathematics

## M.Sc Sem- II (2023-24)

| Day / Time | 10:00-11:00 | 11:00-12:00 | 12:00-12:15 | 12:15-01:15 | 01:15-02:15 | 02:15-03:15 | |
|---|---|---|---|---|---|---|---|
| Mon | R.A. | OR | | ANM | D.G. | OJT | |
| Tue | R.A. | OR | B | ANM | D.G. | OJT | |
| Wed | R.A. | OR | R | ANM | D.G. | OJT | |
| Thu | R.A. | OR | E | ANM | D.G. | OJT | |
| Fri | Prac.2 | Prac.2 | A | OJT | OJT | | |
| Sat | Prac.2 | Prac.2 | K | OJT | OJT | | |

**Sem-II**: Mr. P.S.Ghorpade -(**R.A** ), Mr.PR.Lohi-(**D.G** ), Mr.M.P.Pawar-(**OR&ANM**)

H.O.D.

Dept. Of Mathematics

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Time table

**NABIRA MAHAVIDYALAYA, KATOL**

**Department of Mathematics**

**M.Sc Sem- IV (2023-24)  w.e.f 04/01/2024**

| Day / Time | 9:00-10:00 | 10:00-11:00 | 11:00-12:00 | 12:00-12:15 | 12:15-01:15 | 01:15-02:15 |
|---|---|---|---|---|---|---|
| Mon | PDE | COSM | DS | BREAK | ANM | OR-II |
| Tue | PDE | COSM | DS | | ANM | OR-II |
| Wed | PDE | COSM | DS | | ANM | OR-II |
| Thu | PDE | COSM | DS | | ANM | OR-II |
| Fri | PDE | COSM | DS | | ANM | OR-II |
| Sat | PDE | COSM | DS | | ANM | OR-II |

**Sem-IV**: Mr. P.S.Ghorpade -(**DS & ANM**), Mr.PR.Lohi-(**PDE & COSM**), Mr.M.P.Pawar-(**OR-II**)

H.O.D.

Dept. Of Mathematics

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NABIRA MAHAVIDYALAYA, KATOL

**Department of Mathematics**

**Session 2023-2024**

Extent of Even Semester Syllabus completed as on 29/04/2024

| S.No. | Name of the Teacher | Class | Paper | Percentage of the Syllabus Completed | Approximate time for Completion |
|---|---|---|---|---|---|
| 1. | Mr. N.T.Katre | B.Sc. I<br>B.Sc .II<br>B.Sc. III | Paper II<br>Paper I<br>Paper I<br>Paper II | 75%<br>75%<br>75%<br>100% | 9th May<br>9th May<br>9th May<br>-- |
| 2. | Mr. R.B.Chaware | B.Sc I<br>B.Sc .II | Paper I<br>Paper II | 80%<br>90% | 5th May<br>5th May |
| 3. | Mr. M.P.Pawar | M.Sc. I<br><br>M.Sc. II | ANM<br>O/R<br>O/R | 50%<br>100%<br>100% | 15th May<br>--<br>-- |
| 4. | Mr. P.R.Lohi | M.Sc. I<br><br>M.Sc. II | D/G<br><br>PDE<br>Cosmology | 75%<br><br>100%<br>100% | 15th May<br><br>--<br>-- |
| 5. | Mr. P.S.Ghorpade | M.Sc I<br>M.Sc II | R/A<br>DS<br>ANM | 70%<br>100%<br>100% | 15th May<br>--<br>-- |

Mr N.T.Katre

Head

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# NABIRA MAHAVIDYALAYA KATOL

## STAFF COUNCIL

### NOTICE

A meeting of senior college teachers is convened on Tuesday, 31st of October 2023 to discuss the following agenda;

1. Syllabus Completion Status
2. AQAR data submission

**Date: 30/10/2023**

**Chairman**

**Dr. S. K. Navin**

**Seeretory**

**Dr. B. B. Kalbande**

NABIRA MAHAVIDYALAYA KATOL.

# Nabira Mahavidyalaya, Katol

## Department Of Mathematics

## Departmental Meeting

**27th April, 2024**

The Departmental Meeting of UG & PG faculty members was held on 27/04/2024 and the following points were discussed in the meeting.

(i) Discussion completion of syllabus.
(ii) Discussion on completion of Internal assessment process.
(iii) Discussion on odd semester results.

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)
(5) Mr. R. B. Chaware (Asst. Prof. CHB)

N. T. Katre
(Head)

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# Nabira Mahavidyalaya, Katol

## Department of Mathematics

### Departmental Meeting

**16th Jan., 2024**

The Departmental Meeting for UG course in Mathematics was held on 16/01/2024 and the following points were discussed in the meeting.

(i) Discussion on Syllabus

(ii) Distribution of subjects to be taught.

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)

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# Nabira Mahavidyalaya, Katol
# Department of Mathematics

## Departmental Meeting

**1st Jan., 2024**

The Departmental Meeting for PG course in Mathematics was held on 01/01/2024 and the following points were discussed in the meeting.

(i) Discussion on Syllabus

(ii) Distribution of work load.

(iii) Preparation of Time table.

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)

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# Nabira Mahavidyalaya, Katol

## Department of Mathematics

## Departmental Meeting

**28th Oct., 2023**

The Departmental Meeting of UG & PG faculty members was held on 28/10/2023 and the following points were discussed in the meeting.

(i) Discussion on completion of syllabus.
(ii) Discussion on completion of Internal assessment process.

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)
(5) Mr. R. B. Chaware (Asst. Prof. CHB)

N. T. Katre
(Head)

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# Nabira Mahavidyalaya, Katol

## Department of Mathematics

### Departmental Meeting

**27th July, 2023**

The Departmental Meeting for UG course in Mathematics was held on 27/07/2023 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)

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# Nabira Mahavidyalaya, Katol
# Department of Mathematics

## Departmental Meeting

**25th July, 2023**

The Departmental Meeting for PG course in Mathematics was held on 25/07/2023 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)

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

### Teaching Plan: 2023-24

**B. Sc. I: Semester-I** Name of the Teacher : **Mr. N. T. Katre**

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

| Month | Paper | Topics/Content |
|---|---|---|
| **August 2023** | **M-1** | **Unit-1:** Complex Numbers (Half portion) |
| **September 2023** | **M-1** | **Unit-1:** Complex Numbers (Remaining Half portion)<br>**Unit-2:** Matrices |
| **October 2023** | **M-1** | **Unit-3:** Theory of Equations<br>**Unit-4:** Elementary Number Theory (Half portion) |
| **November 2023** | **M-1** | **Unit-4:** Elementary Number Theory (Remaining Half portion) |

Signature

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

### Teaching Plan: 2023-24

**B. Sc. II: Semester-III** Name of the Teacher : **Mr. N. T. Katre**

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

| Month | Paper | Topics/Content |
|---|---|---|
| August 2023 | M-6 | **Unit-1:** Group Theory-1 (Half portion) |
| September 2023 | M-6 | **Unit-1:** Group Theory-1 (Remaining Half portion)<br>**Unit-2:** Group Theory-2 |
| October 2023 | M-6 | **Unit-3:** Ring Theory-1<br>**Unit-4:** Ring Theory-2 (Half portion) |
| November 2023 | M-6 | **Unit-4:** Ring Theory-2 (Remaining Half portion) |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

### Teaching Plan: 2023-24

**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 Algebra & Graph Theory**
(Optional)

| Month | Paper | Topics/Content |
|---|---|---|
| **July 2023** | **M-9** | **Unit-1:** Analytic Functions |
| **August 2023** | **M-9** | **Unit-2:** Conformal Transformation<br>**Unit-3:** Complex Integration-1 |
| **September 2023** | **M-9**<br>**M-10** | **Unit-4:**Complex Integration-2<br>**Unit-3:** Lattices & Boolean Algebra |
| **October 2023** | **M-10** | **Unit-4:** Graph Theory<br>**Unit-2:** Completeness, Compactness & Connectedness |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

### Teaching Plan: 2023-24

**B. Sc. I: Semester-II** Name of the Teacher : **Mr. N. T. Katre**

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

| Month | Paper | Topics/Content |
|---|---|---|
| **January 2024** | **M-4** | **Unit-1:** Vector Differentiation (Half portion) |
| **February 2024** | **M-4** | **Unit-1:** Vector Differentiation (Remaining Half portion)<br><br>**Unit-2:** Double and Triple Integral, Beta-Gamma Functions |
| **March 2024** | **M-4** | **Unit-3:** Vector Integration<br>**Unit-4:** Vector Theorems (Half portion) |
| **April 2024** | **M-4** | **Unit-4:** Vector Theorems (Remaining Half portion) |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

### Teaching Plan: 2023-24

**B. Sc. II: Semester-IV** Name of the Teacher : **Mr. N. T. Katre**

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

| Month | Paper | Topics/Content |
|---|---|---|
| **January 2024** | **M-7** | **Unit-1:** Real Number System as Complete Ordered field & Elements of Metric Space (Half portion) |
| **February 2024** | **M-7** | **Unit-1:** Real Number System as Complete Ordered field & Elements of Metric Space (Remaining Half portion)<br><br>**Unit-2:** Sequences |
| **March 2024** | **M-7** | **Unit-3:** Infinite Series<br>**Unit-4:** Riemann Integration (Half portion) |
| **April 2024** | **M-7** | **Unit-4:** Riemann Integration (Remaining Half portion) |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

### Teaching Plan: 2023-24

**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 | Topics/Content |
|---|---|---|
| **January 2024** | **M-14** | **Unit-1:** Foundations of the Special Theory of Relativity |
| **February 2024** | **M-14**<br>**M-12** | **Unit-2:** Relativistic Kinematics<br>**Unit-2:** Linear Transformations |
| **March 2024** | **M-14** | **Unit-3:** Tensors and Space-time Structure<br>**Unit-4:** Relativistic Mechanics |
| **April 2024** | **M-12** | **Unit-3:** Algebra of Linear Transformations<br>**Unit-4:** Matrices and Inner Product Spaces |

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NABIRA MAHAVIDYALAYA, KATOL
Department of MATHEMATICS
Teaching Plan-2023-24

B.Sc-I Semester-I

Name of teacher: Mr R.B.Chaware

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

| Month | Unit | Content |
|---|---|---|
| July 2023 | M-2_U-1 | Leibnitz's theorem and some examples |
| August 2023 | M-2_U-1<br>M-2_U-2 | Maclaurin's theorem , Taylors theorem, Indeterminate forms and L'Hospitals Rule. Functions of two variables: Limits Continuity,Partial Derivatives, Homogeneous Functions,Theorems on total differentials. |
| September 2023 | M-2_U-2<br>M-2_U-3 | Composite Functions,Differentiations of composite Functions,Asymptotes ,Envelopes.<br>Jacobians, Taylor's Series of two variables,Maxima and Minima of Functions of two variables. |
| October 2023 | M-2_U-3<br>M-2_U-4 | Lagranges Methods of Multiplier.<br>Integration and Reduction Formulae. |

Mr.R.B.Chaware

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**NABIRA MAHAVIDYALAYA, KATOL**
**Department of MATHEMATICS**
**Teaching Plan-2023-24**

**B.Sc-II Semester-III** **Name of teacher: Mr R.B.Chaware**

**Subject/Paper:P-1, M-5: Partial Differential Equations and Calculus.**

| Month | Unit | Content |
|---|---|---|
| **July 2023** | M-5_U-1 | Simultaneous Differential equations of first order in three variables. |
| **August 2023** | M-5_U-1<br>M-5_U-2 | Methods of solution of dx/=dy/Q=dz/R<br>pfaffian Differential forms and equation,Solution of pfaffian Differential equation in three variables, Linear equations of first order,Integral Surface passing through a given cuirve. |
| **September 2023** | M-5_U-2<br>M-5_U-3 | Compatible System of First order Equations.<br>Charpitz's Methods Jacobi's Methods<br>Partial Differential Equations of Second order,Linear PDEwith constant Coefficients and their Solutions |
| **October 2023** | M-5_U-4 | Calculus of Variations |

Ravi Chaware

Mr.R.B.Chaware

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**NABIRA MAHAVIDYALAYA, KATOL**
**Department of MATHEMATICS**
**Teaching Plan-2023-24**

**B.Sc-I Semester-II** **Name of teacher: Mr R.B.Chaware**

**Subject/Paper:P-1, M-3: Geometry Differential and Difference Equations.**

| Month | Unit | Content |
|---|---|---|
| **January 2024** | M-3_U-1 | Equation of Sphere,Plane section of a Sphere,Intersection of two Spheres. |
| **February 2024** | M-3_U-1<br><br>M-3_U-2 | 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 Cylinders .<br>Family of Curves ,Orthogonal Trajectories. |
| **March 2024** | M-3_U-2<br><br>M-3_U-3 | Exact equations , integrating Factors, Linear and Bernoulli's equations ,Reduction of order.<br>Second order Ordinary linear Differential Equations |
| **April 2024** | M-3_U-3<br><br>M-3_U-4 | Some Problems on Second Ordered Ordinary linear Differential Equations.<br>Difference Equations. |

Mr.R.B.Chaware

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# NABIRA MAHAVIDYALAYA, KATOL
## Department of MATHEMATICS
## Teaching Plan-2023-24

**B.Sc-II Semester-IV** **Name of teacher: Mr R.B.Chaware**

**Subject/Paper:P-2, M-8: Mathematical Methods.**

| Month | Unit | Content |
|---|---|---|
| **January 2024** | M-8_U-1 | Power Series solution (half Portion). |
| **February 2024** | M-8_U-1<br><br>M-8_U-2 | Power Series solution (Remaining half Portion)<br><br>Special Functions |
| **March 2024** | M-8_U-3 | Laplace Transforms |
| **April 2024** | M-8_U-4 | Fourier Series |

Mr.R.B.Chaware

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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2023-24

M.Sc- I Semester-I: Name of the Teacher- Mr. M.P.Pawar

Subject/Paper: Ordinary Differential Equation

| Month | Unit | Content |
|---|---|---|
| August 2023 | I | Linear equations with variable coefficients |
| September 2023 | II | Linear equation with regular singular points |
| October 2023 | III | Existence and uniqueness of solutions to first order equations |
| November & December 2023 | IV | Existence and Uniqueness of solutions to the System of first order differential equations |

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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2023-24

M.Sc- I Semester-I: Name of the Teacher- Mr. M.P.Pawar

Subject/Paper: Paper-II:TOPOLOGY

| Month | Unit | Content |
|---|---|---|
| August 2023 | I | **Topological Space and Continuous functions**: Topological spaces, Basis for a topology, the product topology on XxY, Subspace topology, closed sets and limit points,Continuous Functions |
| September 2023 | II | **Connectedness**: Connected Spaces, connected subspace of the real line,Components and local connectedness |
| October 2023 | III | **Compactness**: Compact Spaces, compact subspace of the Real line,Components and local connectedness |
| November & December 2023 | IV | **Countability and separation axioms**: Countability axioms,The separation axioms, Normal Spaces,The Urysohn Lemma |

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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2023-24

M.Sc- II Semester-III: Name of the Teacher- Mr. M.P.Pawar

Subject/Paper: Paper-V: Operational Research-I

| Month | Unit | Content |
|---|---|---|
| August 2023 | I | Linear Programming: Formulation and solution of linear programming problems |
| September 2023 | II | Transportation Problems: Basic feasible solutions, Optimum solution by steppingstone and MODI method |
| October 2023 | III | Concepts of stochastic processes, Poisson process, Birth-death process, Queuing models: Basic components of a 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/MC/k). |
| November 2023 | IV | 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. |

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**NABIRA MAHAVIDYALAYA, KATOL**

**Department of MATHEMATICS**

**Teaching Plan-2023-24**

**M. Sc. I: Semester-II:** **Name of the Teacher- Mr. M.P.Pawar**

**Subject/Paper: Operations Research**

| Month | Unit | Content |
|---|---|---|
| **Jan 2024** | **I** | **Linear Programming Problem-Advanced Techniques:** Simplex Method, Revised Simplex Method. Post optimality Analysis, Addition and deletion of variables, addition of constraints |
| **Feb 2024** | **III** | **Integer programming:** Pure and mixed I.P.P. Gomory's cutting plane algorithm. Fractional cut method-All integer L. P. P. and mixed integer L. P. P. algorithms. Branch and Bound method |
| **March 2024** | **III** | **Bounded variables in LPP:** Constrained optimization with equality constraints:Lagrange's multiplier method. Constrained optimization with inequality constrained-KT conditions |
| **April 2024** | **IV** | **Network Scheduling by PERT/CPM:**Program Evaluation and Review technique (PERT) and Critical Path Method (CPM). |

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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2023-24

M. Sc. II: Semester-IV: Name of the Teacher- Mr. M.P.Pawar

Subject/Paper: Operations Research-II

| Month | Unit | Content |
|---|---|---|
| Jan 2024 | II | **Linear Programming Problem-Advanced Techniques:** Simplex Method, Revised Simplex Method. Post optimality Analysis, Addition and deletion of variables, addition of constraints |
| Feb 2024 | I | **Integer programming:** Pure and mixed I.P.P. Gomory's cutting plane algorithm. Fractional cut method-All integer L. P. P. and mixed integer L. P. P. algorithms. Branch and Bound method |
| March 2024 | III | **Bounded variables in LPP:** Constrained optimization with equality constraints:Lagrange's multiplier method. Constrained optimization with inequality constrained-KT conditions |
| April 2024 | IV | **Queueing Theory:** Basic features and operating characteristics of a queueing system, arrival and departure (birth & death) distributions, inter-arrival and service times distributions, Poisson queueing modelsM/M/1, M/M/C for finite and infinite queue length |

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NABIRA MAHAVIDYALAYA, KATOL

Department of MATHEMATICS

Teaching Plan-2023-24

M. Sc. I: Semester-II Name of teacher- Mr. M.P.Pawar

Subject/Paper: ADVANCE NUMERICAL METHODS

| Month | Unit | Content |
|---|---|---|
| January 2024 | I | **Solution of Algebraic and Transcendental equations:** Newton-Raphson Method and its Rate of convergence. Generalized Newton's method. Ramanujan's Method. Graffe's root-squaring method. Birge-Vieta Method. Lin-Bairstow Method. |
| February 2024 | II | **Interpolation Theory:** Newton's formulae for interpolation, Central difference interpolation formulae: Gauss's, Stirling's, Bessel's, Everett's formula. Relation between Bessels' and Everett's formulae. Practical interpolation. Interpolation with unevenly spaced points: Lagrange's and Hermite's interpolation formula. Newton's general interpolation formula. Inverse interpolation.Method of successive approximation. Double interpolation. |
| March 2024 | III | **Least squares, Splines, Numerical Integration:**Least square curve fitting procedures: Fitting a straight line, multiple linear least square, curve fitting by polynomials and sum of exponentials. Spline functions: Linear splines, Quadratic splines, cubic splines. Numerical Integration: The Trapezoidal rule and Simpson's 1/3rd and 3/8th rule, Romberg Integration, Newton- Cotes integration formulae. |
| April 2024 | IV | **Numerical Solution of Differential Equations:** Euler's method, Runge-Kutta 2nd and 4th order methods. Predictor-Corrector methods: Adams-Moulton method, Milne's method, Simultaneous and higher order differential equations. |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

## Teaching Plan-2023-24

**M.Sc- I Semester-I:** **Name of the Teacher- Mr. P.R.Lohi**

**Subject/Paper: Integral Equation.**

| Month | Unit | Content |
|---|---|---|
| August 2023 | 1 | Problems on integral equations, conversion of ordinary differential equations into integral equations integro-differential equations. |
| September 2023 | 2 | Fredholm equations, Degenerate kernels, Hermitian and symmetric kernels. The Hilbert- Schmidt theorem, Green's function type kernels |
| October 2023 | 3 | Voltera equations, resolvent kernel of voltera equations, convolution type Kernels, Fourier integral equations, Laplace integral equations. |
| November & December 2023 | 4 | Hilbert transform, finite Hilbert transforms, integral transforms, Eigen values & Eigen functions. |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

## Teaching Plan-2023-24

**M. Sc. I: Semester-II:** **Name of the Teacher- Mr. P.R.Lohi**

**Subject/Paper: Differential Geometry**

| Month | Unit | Content |
|---|---|---|
| **Feb 2024** | 1 | Curves on surface, Helicoids, Geodesics, Families of Curves. |
| **March 2024** | 2 | Normal Properties of Geodesics, Geodesic Curvature, Gaussian Curvature & Conformal mapping. |
| | 3 | Lines of Curvature, Developable & Minimal Surfaces. |
| **April 2024** | 4 | Hilbert's Lemma, Mean curvature & Complete Surfaces. |

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**NABIRA MAHAVIDYALAYA, KATOL**

**Department of MATHEMATICS**

**Teaching Plan-2023-24**

**M.Sc. II: Semester-III** **Name of teacher: Mr P.R.Lohi**

**Subject/Paper : Mathematical methods**

| Month | Unit | Content |
|---|---|---|
| **August 2023** | 1 | Fourier integral theorem, Fourier transforms and it's derivatives convolution integral& multiple Fourier transform. |
| **September 2023** | 2 | Integral equations of convolution type Laplace equation, Diffusion equation. |
| **October 2023** | 3 | Finite Fourier transform, Finite Sturm -Liouville transforms, Generalized Finite fourier transform. |
| **November 2023** | 4 | Finite Hankel transform, Finite Legendre transform, Finite Mellin transform. |

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**NABIRA MAHAVIDYALAYA, KATOL**

**Department of MATHEMATICS**

**Teaching Plan-2023-24**

**M.Sc. II: Semester-III** **Name of teacher- Mr. P.R.Lohi**

**Subject/Paper : General Relativity.**

| Month | Unit | Content |
|---|---|---|
| **August 2023** | 1 | Tensors Algebra, Riemannian geometry, Curvature Tensor, Einstein Tensor, the Bianchi identity. |
| **September 2023** | 2 | Geodesic Principle, Geodesic equations, poisons equations, Einstein field equation. |
| **October 2023** | 3 | Exterior schwarzchild's solution, Schwarzchild's singularity Birkhoff's thm & gravitational Red shift. |
| **November 2023** | 4 | Newtonian incompressible star, schwarzchild's interior solution |

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**NABIRA MAHAVIDYALAYA, KATOL**

**Department of MATHEMATICS**

**Teaching Plan-2023-24**

**M. Sc. II: Semester-IV** **Name of teacher- Mr. P.R.Lohi**

**Subject/Paper: Partial differential Equation.**

| Month | Unit | Content |
|---|---|---|
| **January 2024** | 1 | Curves and surfaces, First order PDE, compatible system of first order PDE, Canonical geodesic equation |
| **February 2024** | 2 | Charpitz's methods, Jacobi methods, Cauchy problems, Quasi linear equations. |
| **March 2024** | 3 | second order partial differential Equations, method of separation of variables & wave equation. |
| **April 2024** | 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-2023-24**

**M. Sc. II: Semester-IV** **Name of teacher- Mr. P.R.Lohi**

**Subject/Paper : Cosmology.**

| Month | Unit | Content |
|---|---|---|
| **January 2024** | 1 | Einstein and de sitter model of universe, Density and pressure, Motion of test particle & Doppler shift. |
| **February 2024** | 2 | Derivation of R-W model, motion of a particle and light rays in FRW, Red shift. |
| **March 2024** | 3 | Friedman model fundamental equation of dynamic cosmology, density and pressure of present universe. |
| **April 2024** | 4 | steady state cosmology, distance measure in cosmology& comoving distance, luminosity Distance Angular diameter and lookback time & galaxy count. |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

## Teaching plan -2023-24

**M.Sc. I: Semester-I:** **Name of Teacher- Mr.P.S.Ghorpade**

Subject/paper : **Algebra-I**

| Month | Unit | Content |
|---|---|---|
| **August 2023** | 1 | Structure theorem of group, Direct products of groups, finitely generated abelian groups, Invariants of a finite abelian groups,Sylow theorem |
| **September 2023** | 2 | Unique factorization domains, principal ideal domain, Euclidean domains, polynomial ring over U.F.D. |
| **October 2023** | 3 | Irreducible polynomials and Eisenstein criterion, adjunction of roots, splitting fields Normal extension multiple roots .<br>Finite fields, separable extension |
| **Nov &Dec 2023** | 4 | Automorphism groups and fixed fields fundamental theorem of galois theory, fundamental theorem of algebra Roots of unity and cyclotomic polynomials. Cyclic extension, polynomials solvable by radicals ruler and compass constructions |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

## Teaching plan -2023-24

**M.Sc. II: Semester-III:** **Name of Teacher- Mr.P.S.Ghorpade**

Subject/paper : **Functional Analysis ..**

| Month | Unit | Content |
|---|---|---|
| **August 2023** | 1 | Normed spaces, Banach spaces, Further properties of normed spaces, Finite dimensional normed spaces and subspaces, Compactness and finite dimension Bounded and continuous Operators, |
| **September 2023** | 2 | Linear Functional, Normed spaces of operator Dual spaces, Inner product spaces, Orthogonal complements and direct Product Total orthonormal sets and sequence. |
| **October 2023** | 3 | Representation of functional on Hilbert spaces, Hilbert adjoint Operators, Hahn-Banach Theorem for complex vector spaces and normed spaces, Reflexive spaces |
| **November 2023** | 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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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

## Teaching plan -2023-24

**M.Sc. II: Semester-IV:** Name of Teacher-**P.S.Ghorpade**

**Subject/paper: Advanced Numerical Analysis**

| Month | Unit | Content |
|---|---|---|
| **January 2024** | 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. |
| **February 2024** | 2 | Polynomial interpolation theory, Newtons divided differences, finite differences and table oriented interpolation formulas, Hermite interpolation. |
| **March 2024** | 3 | The Weierstrass theorem and taylors theorem, the minimax approximation problem, the least square approximation problem orthogonal polynomials economisation of taylor series. |
| **April 2024** | 4 | The trapezoidal rule and simpson's rule Newton-Cotes integration formulas. |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

## Teaching plan -2023-24

**M.Sc. II: Semester-III:** Name of Teacher-**P.S.Ghorpade**

**Subject/paper: Complex Analysis.**

| Month | Unit | Content |
|---|---|---|
| **August 2023** | 1 | .Imposibility of ordering complex Analysis, Extended complex plane & Stereographic projection elementary properties and examples of analytic function, power series, Analytic function |
| **September 2023** | 2 | Analytic function as mapping, Mobius transformation, power series Representation of Analytic function, zeros of an Analytic function, index of closed curve |
| **October 2023** | 3 | .Cauchys theorem, and integral formula, the homotopic version of Cauchys theorem simple connectivity the open mapping theorem Goursat theorem residues the argument principle |
| **November 2023** | 4 | The maximum principle Schwarz lemma, convex function, and hadams three circle theorem, Phragmen- lindel of theorem |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

## Teaching plan 2023-24

**M.Sc. I: Semester-II:** Name of Teacher-**P.S.Ghorpade**

**Subject/paper:Real Analysis**

| Month | Unit | Content |
|---|---|---|
| **February 2024** | 1 | Sequence and series of a function ,uniform convergence and integration ,uniform convergence and differentiation equicontinuous families of a function the stone weierstrass theorem |
| **March 2024** | 2 | Functions of several variables ,differentiation, the contraction principle, the inverse function theorem, The implicit function theorem , the Rank theorem. |
| **April 2024** | 3 | Introduction of Manifolds and functions of mapping vector fields on open subsets of $R^n$ , Topological Manifolds ,Real projective space ,differential functions and mapping |
| | 4 | Differential Manifolds and submanifolds<br>Rank of a mapping immersion ,sub manifolds ,Lie group,Transformation groups,the action of discrete groups on manifold,covering manifolds. |

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# NABIRA MAHAVIDYALAYA, KATOL

## Department of MATHEMATICS

## Teaching plan -2023-24

**M.Sc. II: Semester-IV:** Name of Teacher-**P.S.Ghorpade**

**Subject/paper: Dynamical system.**

| Month | Unit | Content |
|---|---|---|
| **January 2024** | 1 | Dynamical system and vector fields,the fundamental theorem continuity of a solution to initial condition, on extending solutions,global solution,the flow of differrential equation . |
| **February 2024** | 2 | Non linear sink,stability ,liapunov function ,gradient system,gradient and inner product. |
| **March 2024** | 3 | Limit sets local section and flow boxes,monotone sequence in planer dynamical system,the poincare bendixon theorem,one species ,predator and prey ,competing species. |
| **April 2024** | 4 | Asymptotic stability of closed orbit discrete dynamical system autonomous equation and differentiability of flows,persistance of equilibria,persistance of closed orbits and structural stability. |

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**NABIRA MAHAVIDYALAYA, KATOL**
**DEPARTMENT OF ZOOLOGY**
**ACTION PLAN FOR THE SESSION 2023-24**

| Month | Action Plan |
|---|---|
| **July** | • To conduct Orientation Course<br>• Departmental meeting<br>• Celebration of International Tiger Day.<br>• Arrange Practical set-up for I, III, V as per syllabus |
| **August** | • Orient students about Laboratory safety and use of instruments.<br>• Arranging the Guest Lectures/Webinars of resource person.<br>• Celebrate World Photography Day on 19 August.<br>• Nature Club/ Science Corner activity |
| **September** | • Arrange Practical set-up for I, III, V as per syllabus<br>• Remedial Classes.<br>• Test Examination<br>• Initiative for Certificate course<br>• Scientific Models workshop |
| **October** | • Arrange Practical set-up for I, III, V as per syllabus<br>• Test Examination and Students Seminar and Remedial Classes.<br>• Motivating the students to participate in Seminar/ Competitions at inter College /State / National level.<br>• Diwali Vacation (20-29) |
| **November** | • Internal & University Practical Examination<br>• Awareness towards Scientist Activity<br>• Students Model Preparation for Avishkar<br>• Winter-Vacation (19 Nov. to 07 Nov. 22) |
| **December** | • Departmental meeting<br>• Arrange Practical set-up for I, III, V as per syllabus<br>• Awareness towards Scientist work<br>• Science corner activity |
| **January** | • Arrange Practical set-up for I, III, V as per syllabus<br>• Arranging the Guest Lectures/Webinars of resource person.<br>• Test Examination |
| **February** | • Arrange Practical set-up for I, III, V as per syllabus<br>• National science day / World cancer day celebration<br>• Initiative for Certificate course<br>• Awareness towards Scientist work |
| **March** | • Test Examination, Student seminar<br>• World wildlife day celebration<br>• Guest Lecture/Practical examination |
| **April** | • Test Examination, Remedial Classes.<br>• Awareness towards Scientist Activity<br>• Practical/ University Examination |
| **May** | Examination work |
| **June** | World environment Day celebration<br>Examination work |

Head Zoology Deptt.
Nabira Mahavidyalaya, Katol

# NABIRA MAHAVIDHYALAYA KATOL

## DEPARTMENT OF ZOOLOGY

### Time Table-2023-24

| | 1 | 2 | | 3 | 4 | | 5 6 7 | | 8 9 10 |
|---|---|---|---|---|---|---|---|---|---|
| **DAY** | 8.00-8.48 | 9.00 - 10.00 | | 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 I **MDM** | **B** | BSc. II **VGB** | BSc I **TSK** | **B** | BSc I Pract **(3 Batches) VGB, TSK** | | BSc I Pract **(3 Batches) VGB, TSK,MDM** |
| ***TUE*** | | BSc III **MDM** | **R** | BSc II **VGB** | BSc II **TSK** | **R** | BSc I Pract **VGB, TSK (3 Batches)** | | BSc I Pract **VGB,TSK,MDM (3 Batches)** |
| ***WED*** | | BSc III **TSK** | **E** | BSc II **AG** | BSc I **VGB** | **E** | BSc III Pract **VGB, TSK, MDM (4 Batches)** | | BSc III Pract **VGB, TSK, AG (2 Batches)** |
| ***THU*** | | BSc III **TSK** | **A** | BSc II **AAW** | BSc I **VGB** | **A** | BSc III Pract **VGB, TSK (4 Batches)** | | BSc III Pract **VGB, TSK, (2 Batches)** |
| ***FRI*** | | BSc III **AG** | **K** | BSc II **TSK** | BSc I **AAW** | **K** | BSc II Pract **VGB, TSK, AAW (3 Batches)** | | BSc II Pract **VGB, TSK,AG (2 Batches)** |
| ***SAT*** | | BSc III **VGB** | | BSc II **TSK** | BSc I **AAW** | | BSc II Pract **VGB, TSK, AAW (3 Batches)** | | BSc II Pract **VGB, TSK,AG (2 Batches)** |

Total workload--- Theory period— 18

Practicals- 102

Total - 120

Dr. Vikas G. Barsagade - 18

Dr. Trupti. S. Khedkar - 20

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

**Date- 3/08/2023**

The Departmental Meeting was held on 03/08/2023. Following points were discussed in the meeting in the HOD's chamber.

1. Distribution of work load.
2. Discussion on action plan.
3. Time table setting.
4. Chemical Stock checking.
5. Sorting and listing of books in departmental library.
6. Preparation of attendance sheets.

Members of the department present during the meeting:

a) Dr V.G. Barsagade (Head & Asst. Prof.)
b) Dr T. S. Khedkar (Asst. Prof.)
c) Mr. Arvind Wankhede (Asst. Prof. CHB)
d) Ms. Aditi Chandak (Asst. Prof. CHB)
e) Ms. Ankita Gajbe (Asst. Prof. CHB)
f) Ku. Maheshwaru Munne (Asst. Prof. CHB)
g) Shri C. N. Dhawad (Lab Attendant)
h) Shri . Pramod Bawane (Lab Attendant)

# Nabira Mahavidyalaya, Katol
## Department Of Zoology
## Departmental Meeting

**Date - 7/ 01/ 2024**

The Departmental Meeting was held on 07/01/2024. 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. Aditi Chandak (Asst. Prof. CHB)
V. Ku. Maheshwaru Munne (Asst. Prof. CHB)
VI. Shri C.N.Dhawad (Lab Attendant)
VII. Shri . Pramod Bawane (Lab Attendant)
VIII. Ku. Ankita Gajabe

**NABIRA MAHAVIDYALAYA, KATOL**

*PROFORMA OF TEACHING PLAN 2023-24*

To be submitted to the Teacher Apprnisal Committee

Name of the Teacher: Dr. V.G. BARSAGADI Dept :Zoology

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

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**Month** **Topics to be covered**

**June** * Admission committee work **July** *

**Theory** **SEM I**

- Introduction to syllabus
- **Protozoa** : General characters and classification up to classes
- ***Paramoecium*** : Structure and reproduction
- ***Plasmodium*** : Structure
- **Practicals**
  - Study of Protozoans, study of phylum Porifera, and Coelenterata, Platyhelminthes

**August** *

- ***Plasmodium*** : life cycle
- **Parasitic Protozoans of Man :** *Entamoeba, Trypanosoma*
- *Giardia and Leishmania*
- Mode of infection and its control

**Practical**

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

**September*** **Theory**

- **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**

- Mounting
- Environmental Biology exp.
- Estimation of dissolved oxygen of water
- Estimation of free $CO_2$ of water
- Estimation of pH of water sample
- Estimation of total hardness of water

**October** *

- ***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**

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

**November** *

- ***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
  - 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

Associate Professor
Department of Zoology
Nabira Mahavidyalaya, Katol

**NABIRA MAHAVIDYALAYA, KATOL**

*PROFORMA OF TEACHING PLAN - 2023-24*

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)----------

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**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 $CO_2$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

**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 Kreb'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

Associate Professor
Department of Zoology
Nabira Mahavidyalaya, Jal...

## NABIRA MAHAVIDYALAYA, KATOL

*PROFORMA OF TEACHING PLAN 23-24*

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)**

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**Month** — **Topics to be covered**

**June** — **Protochordata** : General characters and classification up to order

**July**

**Theory**

- ***Herdmania*** : Structure, digestive system, ascidian tadpole and metamorphosis
- **1*Amphioxus*** : Structure, digestive system, circulatory system, sense organs
- **Agnatha** : General characters of Cyclostomata (*Petromyzon* and *Myxine*)

**Practical**

- Introduction to syllabus
- Identification, classification: I. Urochordata II. Cephalochordata III.Cyclostomata IV. Pisces : V. Amphibia

**August** **Theory**

- **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**

- Developmental Biology -Study of permanent slides of Frog embryology.
- Study of permanent slides

**September** — **Theory**

- Gametogenesis and type of eggs
- Fertilization of egg
- Post fertilization development of fish
- Types of scales of fishes. Development of placoid scales

**Practical**

- Permanent stained preparation
- Genetic experiments: Study of monohybrid and dihybrid ratio.

**October** — **Theory**

- 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**

- 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

➢ Introduction to syllabus

**Sem IV**

**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 premitive 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.

Associate Professor
Department of Zoology
Nabira Mahavidyalaya, Kat

**NABIRA MAHAVIDYALAYA, KATOL**

*PROFORMA OF TEACHING PLAN – 23-24*

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**

- Introduction to syllabus
- Cytoplasmic inheritance- Kappa particles in Paramecium.
- $CO_2$ sensitivity in Drosophila and milk factor in mice.
- Linkage and crossing over – Basic concepts of linkage and types of linkage
- Theories of linkage

**Practicals**

- Introduction to syllabus
- Identification, classification: I. Urochordata II. Cephalochordata III.Cyclostomata IV. Pisces : V. Amphibia

**August** • **Theory**

- 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**

- Developmental Biology -Study of permanent slides of Frog embryology.
- Study of permanent slides

**September** • **Theory**

- Chromosomal aberrations: addition, deletion, duplication and inversion
- Disorders related to chromosomal number- Turner syndrome, Klinefelter syndromeand Down syndrome.
- Gene mutations- Spontaneous and induced mutations.
- Extracellular genome – Presence and functions of mitochondrial DNA, plasmid

**Practical**

- Permanent stained preparation
- Genetic experiments: Study of monohybrid and dihybrid ratio.

**October** • **Theory**

- Mutations
- Mutagenic agents

**Paper I (Unit –IV)** Fertilization, Cleavage, Blastulation and Gastrulation.

**Practical**

- 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

January * Theory

Sem IV

- 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.

Associate Professor
Department of Zoology
Nabira Mahavidyalaya (Af.)

**NABIRA MAHAVIDYALAYA, KATOL**

*PROFORMA OF TEACHING PLAN - 2023-24*

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)**

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**Month** — **Sem V**

**Topics to be covered**

**June** *

Introduction to syllabus

- **Aquaculture**

**July** *

**Theory**

- Site selection and construction ,Pre stocking and post stocking manangement 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.

**December** Sem IV

* **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

Associate Professor
Department of Zoology
Nabira Mahavidyalaya, Katol

**NABIRA MAHAVIDYALAYA, KATOL**

*PROFORMA OF TEACHING PLAN 2023-24*

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**

- Introduction to syllabus
- Structure and functions of digestive glands.

**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**

- 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**

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

**September** * **Theory**

**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**

- Respiratory disorders and effects of smoking
- Class test
- Seminars

**Practical**

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

**December** — **Sem IV**

* **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 andgraphical 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

Associate Professor
Department of Zoology
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**Shikshan Prasarak Mandal's**

**NABIRA MAHAVIDYALAYA, KATOL**

**District Nagpur (M.H.), Pin: 441302**
**Graduation & Post Graduation in Arts,**
**Commerce, Science & Management**

**Department of Zoology**

**Title: Bridge Course Programme in Zoology**
**Date:** - 10th August 2023.
**No. of Beneficiaries**: - 33
**Description of the program:-**

**Program Objective:** The primary aim of this program is to bridge the gap between the zoology curriculums studied up to the twelfth grade and the mathematics courses that students will encounter at the undergraduate level. Additionally, this program assists students in establishing a solid foundation in zoological concepts, improving their skills, and introducing them to advanced topics.

**About the Guest Speaker:** Dr. V. G. Barsagade, the Head of the Department of Zoology at Nabira Mahavidyalaya, Katol, delivered lectures during Module VI on August 10 th, 2023, in an offline setting.

**Program Description:** An offline Bridge Course Program in zoology for undergraduate students was conducted at the college. Before the program officially started, notifications were issued to the group of first-year B.Sc. students. The program was conducted in one module to address the subject's specific requirements. During the course, students explored the fundamental concepts necessary for the study of undergraduate zoology. The teaching approach used in the program was student centric and encouraged interaction. Lectures were complemented with practical examples and real-life applications to facilitate comprehension.

**Conclusion:** The bridge course in zoology for first-semester undergraduate students played a pivotal role in preparing them for the challenges of higher education in the field. It effectively bridged knowledge gaps, improved problem-solving skills, and stimulated interest in advanced topics, thereby contributing to the overall development of the students.

Head Zoology Deptt.
Nabira Mahavidyalaya, Katol

# NABIRA MAHAVIDYALAYA, KATOL

## DEPARTMENT OF ZOOLOGY

### BRIDGE COURSE

### ATTENDENET SHEET

Date -10/8/2023

| Sr no. | NAME OF STUDENTS | SIGN |
|---|---|---|
| 1] | Sanakshi. Ishwar Shende | Shende |
| 2] | Monika Manohar Bangai | Mbangai |
| 3] | Anjali . Devidas . Sembekare | Sembekar |
| 4] | Fauhat Rasheed Sheikh | fauhat. |
| 5] | Sanskruti Dewanand Meshram | sp. Meshram |
| 6] | Bharti Devidas Raut | Raut |
| 7] | Khushali Katlam | Khushali. |
| 8] | Asfiya .A. Syed | Asfiya |
| 9] | Mayusi Lone | Mayusi |
| 10] | Resham kawadee | Resham |
| 11] | Himakshi Ghasad | Himakshi |
| 12] | Kapilansh .s. Mahurkar | Mahurkar |
| 13] | Rehan H. Sheikh | Rehan |
| 14] | Swapnil S. kahale | Swapnil |
| 15] | samiksha U. kawalkar | Ukawalkar |
| 16] | Mayuri R Dhopre | Mayuri. |
| 17] | Samruddhi D. yeole | Syeole |
| 18] | Anushka S. Ingole | Ingole |
| 19] | Harshada P. Jagdale | Jagdale |
| 20] | Srushti R. Dhok | |
| 21] | Sakshi N. Fuse | SFuse |
| 22] | Kaunali P. Bodhale | PBodhale |
| 23] | Vishali. M. Jugseniya | Mjugseniya. |
| 24] | Neha R. Khandait | Neha |
| 25] | Bhakti S. Kinkar | Bhakti |
| 26] | Tanuja P. Bhalavi | Bhalavi |
| 27] | Pranali M. Topale | PM.Topale |
| 28] | Manisha M. Tijare | M.M. Tijare |

CamScanner

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|---|---|---|
| 29) | Nandini Narendra Chandle | Nandini |
| 30) | Vaishnavi V. Bagde | V. V. Bagde |
| 31) | Gayatri P. Ghormade | Ghormade |
| 32) | Tina R. Mahoriya | Mahoriya |
| 33) | Chetna Pramod Meshram | Chetna |
| 34) | Srushti R. Dhok | Dhok |
| 35) | Himani Hiruchandra Barai | H. Barai |
| 36) | Sudhansh Y. Amale | Amale. |
| 37) | Rudra A. Bisani | R. Bisani. |
| 38) | Saloni J. Manmode | Manmode |
| 39 | Komal R Chaudhari | Komal |
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# Action Plan

## Department of Botany

### UG & PG

### Session: 2023-2024

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

1. Participation in National & International Conferences and paper and poster presentation in National & International Conferences.
2. Organise guest lecture for UG & PG students, possibly in each month.
3. To organise competition for UG & PG students related to their academic, social and health aspects.
4. To organise class tests, assignments and class seminars for students.
5. Application for re-approval of job-oriented certificate course in "Plant Tissue Culture Techniques", which is already going on from last four years.
6. To organise Botanical Excursion tour for UG & PG students.
7. To establish MOUs with NGOs, National and private labs.
8. To conduct various activities under the MOU.

**Following table gives an idea about approximate time schedule about execution of above the action plan;**

| Sr. No. | Activities | Tentative Dates |
|---|---|---|
| **1** | To conduct Departmental Meeting. | **July 2023** |
| **2** | Arrange Practical set-up for UG and PG students. | |
| **3** | To conduct Bridge Course for UG & PG Sem-I students. | **August 2023** |
| **4** | Seminar on Time Management for UG & PG students. | |
| **5** | Workshop on Seed-Ball Preparation for UG & PG students. | |
| **6** | Paper Seed Preparation Workshop for UG & PG students. | |
| **7** | Guest Lecture on topic relevant to syllabus for UG & PG students. | |

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|---|---|---|
| **8** | Plantation Drive with NSS & NCC Units. | **September 2023** |
| **9** | Nutrition Week (1-7/09/2023). | |
| **10** | Guest Lecture / Seminar on Medicinal Farming for UG & PG students. | |
| **11** | GK-Quiz Competition on World Ozone Day. | |
| **12** | Assignment allocation for UG & PG students. | |
| **13** | Study Tour for UG & PG students. | |
| **14** | Student seminar on World Habitat Day 2023. | **October 2023** |
| **15** | Seminar Competition for UG & PG students. | |
| **16** | Unit Test Examination for UG & PG students. | |
| **17** | Remedial classes for UG & PG students. | |
| | **Winter Vacation** | **1st Nov. 2023 to 30th Nov. 2023** |
| **18** | Departmental Meeting. | **December 2023** |
| **19** | Workshop on personality development and effective communication for UG & PG students. | |
| **20** | Awareness quiz on National Energy Conservation Day 2023. | |
| **21** | Seminar on International Day of Biological Diversity 2023. | |
| **22** | Application for PTC Certificate Course Work continuation. | |
| **23** | Arrange Practical set-up for UG & PG students. | **January 2024** |
| **24** | Study tour for UG & PG students. | |
| **25** | Guest Lecture relevant to syllabus for UG & PG students. | |
| **26** | Essay Writing Competition for UG & PG students. | |
| **27** | GK-Quiz on World Forestry Day and World Earth Water Day 2024. | **February 2024** |
| **28** | National Science Day Celebration and related programs. | |
| **29** | Assignment Allocation for UG & PG students. | |
| **30** | Unit Tests for UG & PG students. | |
| **31** | Remedial Classes for UG & PG students. | |
| **32** | Student Seminars for UG & PG students. | **March 2024** |

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# Academic Calendar

# Department of Botany

## UG & PG

## Session: 2023-2024

### Curricular / Co-Curricular / Extra Curricular Activities

| Sr. No. | Activities | Tentative Dates |
|---|---|---|
| 1 | Commencement of Classes and Practicals for B.Sc. Sem-I & Sem-V. | 1st of August, 2023. |
| 2 | Commencement of Classes and Practicals for M.Sc. Sem-I. | 05th of August, 2023. |
| 3 | Commencement of Classes and Practicals for B.Sc. Sem-III. | 20th of August, 2023. |
| 4 | Seminar on Time Management for UG and PG Students. | Last week of August, 2023. |
| 5 | Class Tests for Sem-V and Sem-III. | Last week of August, 2023. |
| 6 | Guest Lecture for UG Students. | 1st week of September, 2023. |
| 7 | Guest Lecture for PG Students. | 2nd week of September, 2023. |
| 8 | Workshop on Seed Paper Preparation. | Last week of September, 2023. |
| 9 | Class Tests for UG Sem-V, Sem-III, Sem-I & PG Sem-I students. | Last week of September, 2023. |
| 11 | Assignments distribution to UG Sem-V, Sem-III, Sem-I & PG Sem-I students. | First week of October, 2023. |
| 12 | Preparation leaves | First week of October, 2023. |
| 13 | Clearance of students for hall ticket | One week before exam |

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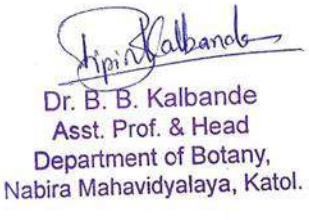
|---|---|---|
| **14** | Winter back exams starts | 16th October, 2023. |
| **15** | Winter regular exam starts | 16th October, 2023. |
| **16** | Diwali Vacation | 12th to 15th November, 2023. |
| **17** | Unit tests for Sem-V, Sem-III & Sem-I | First week of November, 2023. |
| **18** | Winter Vacation | 1st Nov. 2023 to 30th Nov. 2023. |
| **19** | Commencement of Classes and Practicals for B.Sc. Sem-VI, Sem-IV, Sem-II & M.Sc. Sem-II | 1st December, 2023. |
| **20** | Guest Lecture for UG Students. | Second week of January, 2024. |
| **21** | Guest Lecture for PG Students. | Third week of January, 2024. |
| **22** | Class Tests for B.Sc. Sem-VI, Sem-IV, Sem-II & M.Sc. Sem-II | Last week of January, 2024. |
| **23** | Commencement of Certificate Course on Plant Tissue Culture | First week of January, 2024. |
| **24** | Study Tour for UG & PG students. | Second week of January, 2024. |
| **25** | Assignments allocation for UG & PG students. | First week of February, 2024. |
| **26** | Workshop on Entrepreneurship in Medicinal Plant Farming & Product Processing. | Second week of February, 2024. |
| **27** | Remedial Classes. | Second week of February, 2024. |
| **28** | Assignments submission by Sem-VI, Sem-IV & Sem-II students. | Last week of February, 2024. |
| **29** | Class Tests for B.Sc. Sem-VI, Sem-IV, Sem-II & M.Sc. Sem-II | Last week of February, 2024. |
| **30** | Preparation leaves | First week of March, 2024. |
| **31** | Clearance of students for hall ticket | One week before exam. |

| | | |
|---|---|---|
| **32** | Summer back exams starts | 15th March, 2024. |
| **33** | Summer regular exam starts | 15th March, 2024. |
| **34** | Summer Vacations | 2nd May to 15th June, 2024. |



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# Teaching Plan

# Department of Botany

## Session 2023-2024 (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*, *Ectocapus* 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).

**Unit III**- Periderm, growth rings, Sap-heartwood, leaf anatomy: Growth rings: Spring wood and winter wood. Sap wood, Heart wood, Tyloses.

**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: Composition, functions and Structures associated with periderm (Lenticel, Bark, Commercial cork). Anatomy of leaf: Dicot (Nerium) and Monocot (Maize). Senescence and Abscission.

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

**Unit II - Ecosystem: Ecosystem:** Definition, types; Components: Biotic and abiotic components, Food chain, Food web, Ecological pyramids. **Autecology:** Definition, Importance, Ecads, Ecotypes: Characteristics and importance, Growth curve.

**Practicals –** 1. To determine frequency, density and abundance of community by quadrate method. 2. To determine homogeneity of vegetation by Raunkier's frequency diagram. 3. To determine the minimum number of quadrates required for reliable estimate of biomass in grasslands. 4. To study the frequency of herbaceous species in grassland and to compare the frequency distribution with Raunkier's standard frequency diagram. 5. To measure the above ground plant biomass in a grassland.

**Assessment by online quiz, assignments & Unit Test.**

September: (Blended Teaching & Learning)

**Unit II - 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.

**Unit III** - Ecosystem: Biotic and Abiotic components, Food chain, Food web, Ecological pyramids, Autecology (definition, importance), ecad, ecotype- characteristics and importance, Synecology (or community ecology)- Study of community: analytical (quantitative- frequency, density, abundance; qualitative- Life forms, Raunkier's Biological spectrum) and synthetic characters (presence, fidelity, dominance).

**Practicals –** 6. To study soil profile at different locations of nearby area. 7. To estimate transparency, pH and temperature of different water bodies. 8. To estimate salinity of different water samples.

**Assessment by online quiz, assignments & Unit Test.**

October: (Blended Teaching & Learning)

**Unit IV - Skill development: Organic farming: 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 –** 9. To study the morphological and anatomical characteristics of hydrophyte, xerophyte, halophytes and epiphyte with reference to ecological adaptations. 10. Collection and identification of various organic manures. 11. To study the methodology of preparation of vermicompost.

**Assessment by online quiz, assignments & Unit Test.**

# Teaching Plan

## Department of Botany

## Session 2019-2020 (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 (Tendril, Phyllode).

**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.

**Unit III - Carpel and Fruit: Gynoecium:** Parts, Cohesion, Adhesion and Placentation.

**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 - Fruit:** Definition, Pericarp, Types of fruits: Simple (Dehiscent, Schizocarpic, Dry Indehiscent, Fleshy Indehiscent); Aggregate (Etaerio) fruits, Composite Fruits (Sorosis and Syconus).

**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.

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

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

**Assessment by online quiz, assignments & Unit Test.**

February:

**Unit III - 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. **Regulation of gene action:** Lac-Operon model

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

**Assessment by online quiz, assignments & Unit Test.**

March:

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

**Assessment by online quiz, assignments & Unit Test.**

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

## B.Sc. Semester-VI:

### Paper-I: BIOCHEMISTRY, BIOTECHNOLOGY AND HERBAL TECHNOLOGY

December:

**Unit I - Biochemistry: Lipids and Enzymology. Lipids:** Definition, Properties and role of fatty acids, oils and waxes; Degradation of fats (β-Oxidationand 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.

**Unit II - Plant tissue culture: Brief account of**: Tissue culture, Totipotency, Explant, Aseptic cultures, Micropropagation, Differentiation and Morphogenesis. **Methods of sterilization:** Autoclaving, Dry heat and Chemical sterilization.

**Practicals –** 1. To study the effect of temperature on the activity of enzyme Amylase in the suitable plant material. 2. To study the effect of temperature on the activity of enzyme Catalase/Peroxidase in the suitable plant material. 3. To perform micro-chemical test for oils/lipids.

**Assessment by online quiz, assignments & Unit Test.**

January:

**Unit II - 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. **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.

**Unit III - Genetic engineering. Genetic engineering:** Definition, Tools in genetic engineering: Enzymes (Restriction enzymes, Ligases, DNA-polymerases), Host.

**Practicals – iii.** To study the structure of following vectors on the basis of photographs and diagrams: plasmid vector, Binary vector

**Assessment by online quiz, assignments & Unit Test.**

February:

**Unit III - DNA Library: Cloning vectors:** General Characteristics, method of Isolation of vector, Plasmid as a vector (pBR322). 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.

**Unit IV - Skill Development: Herbal technology. 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.*

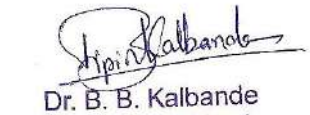
**Practicals – iv.** To study the effect of various plant growth regulators on the growth and development of plants. **v.** To study steps of genetic engineering from photograph example Bt cotton and golden rice.

**Assessment by online quiz, assignments & Unit Test.**

March:

**Unit IV - Skill Development: Herbal technology. 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.**



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**NABIRA MAHAVIDYALAYA, KATOL**

**TEACHING PLAN FOR THE ACADEMIC SESSION 2020-21**

**Dr. Reena S. Meshram**

Assistant Professor

Department of Botany

Teaching Mode: Classroom

**B.Sc. SEMESTER- I**
**PAPER-II**

**(Fungi, Plant-Pathology, Lichens, Bryophyta and Mushroom Cultivation)**

## July

**Unit-I: Fungi:**

1. **Fungi:** General characteristics, Classification (Alexopolos, 1996), Economic importance.

2. Life history of *Albugo, Mucor, Puccinia*and *Cercospora.*

**Practicals:**

**Study of Fungal genera:** *Albugo, Mucor, Puccinia, Cercospora*

## August

**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

**Lichens:** Introduction, Types, Reproduction and Economic importance.

**Practicals:**

**Study of Lichen:** Thallus structure, Types of lichens.

**Plant pathology:** Leaf curl of Papaya, Red rot of Sugarcane, Citrus canker

## September

**Unit-III: Bryophyta:**

1. **Bryophyta:** General Characteristics, Classification (Proskauer, 1957), Economic importance.

2. Life history of *Marchantia, Anthoceros and Funaria.*

**Practicals:**

**Study of Bryophytes:** Marchantia, Anthoceros, Funaria.

To study different instruments/tools used in mushroom cultivation.

## October

**Unit-IV: Skill Development: Mushroom Cultivation:**

**1. Introduction:** Nutritional and medicinal value of edible mushroom; Poisonous mushroom. Edible mushroom: *Volvariellavolvacea, Plerotuscitrinopileatus, Agaricusbisporus.*

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)

**Practicals:**

To study method of preparation of spawn.

To study preparation of mushroom beds.

**B.Sc.SEMESTER-III**
**PAPER-I**

**(Angiosperm systematics, Embryology and Indoor gardening)**

## July

**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)

**Practicals:**

Study of fossil Angiosperms from specimens/slides.

## August

**Unit-II: Angiosperm: Classification and Families:**

1. **Systems of Classification**: Benthemand Hooker; EnglerandPrantl (along with merits – demerits)

*2.* **Study of families:Dicot:***Malvaceae, Brassicaceae, Papilionaceae, Asteraceae, Asclepiadaceae;* **Monocot:***Poaceae.*

**Practicals:**

Study of dicot and families mentioned in theory syllabus.

## September

**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, Megasporogeneis, 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.

**Practicals:**

Study monocot families mentioned in theory syllabus.

To calculate percent germination of pollen grains in the given material.

Study of structure of anther and pollen grain.

Study of different types of ovule

## October

**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.*,**Ferns:***Adiantum sp., Nephrolepis*sp.,**Palms:***Chrysalidocarpuslutescens*- Areca palm, *Howeaforsteriana*- Kentia palm,**Flowering plant:***Anthurium sp., Begonia* sp.,**Orchids:***Vanda sp., Dendrobium* sp.

**Practicals:**

Study of dicot and monocot embryos from permanent micro-preparation.

Study of different popular house plants.

**B.Sc. SEMESTER-V**

**PAPER-I**

**(Plant Physiology, Mineral Nutrition and Hydroponics)**

**July**

**Unit-I: Plant-Water relation**

1. **Water relation:** Concept and significanceof 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).

**Practicals:**

To study the effect of temperature on the permeability of cell membrane.

To study the effect of various organic solvents on the permeability of cell membrane.

**August**

**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 ($C_3$), HSK pathway ($C_4$), CAM pathway.

**3. Respiration:**Definition, Types, significance and Respiratory Quotient (RQ)

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

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

**Practicals:**

To determine the osmotic pressure/potential of vacuolar sap by plasmolytic method.

To study ascent of sap in suitable plant material.

**September**

**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.

**Practicals:**

To separate chlorophyll pigments by paper chromatography and calculate Rf value of different pigments.

To measure the rate of photosynthesis by Wilmotz bubbler under variable conditions of light (quantity and quality).

To measure the rate of photosynthesis by Wilmotz bubbler under variable conditions of temperature and CO2 concentration.

**October:**

**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.

**Practicals:**

To demonstrate the phenomenon of imbibition.

To demonstrate that light is necessary for photosynthesis (Ganong's light screen).

**B.Sc. SEMESTER-II**

**PAPER-I**

**(Palaeobotany, Pteridophytes, Gymnosperms and Soil analysis)**

**December**

**Unit-I: Palaeobotany:**

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

**Practicals:**

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

Study of Pteridophytes: *Selaginaella* and *Equisetum*.

**January**

**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**

**Practicals:**

Study of Gymnosperms: *Cycas* and *Pinus*

Types of soil

**February**

**Unit-III: Gymnosperms:**

1. **Gymnosperms:**General characteristics, Classification (Steward, 1982), Economic Importance
2. **Fossil Gymnosperms:***Cycadeoidea* flower

3. **Life cycle of:** *Cycas*and*Pinus.*

**Practicals:**

To study Physical properties of soil samples

To study Chemical properties of soil samples

**March**

**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), Water Rising Capacity (WRC), Bulk Density (BD) and Porosity (P).

4. **Chemical properties of soil:** pH, Carbonates as CaCO3, Available Nitrogen, Available Phosphorous, Available Potassium.

**B.Sc.SEMESTER-IV**

**PAPER-I**

**(Cell Biology, Plant Breeding, Evolution and Seed Technology)**

**July**

**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**: Cellwall, Plasma membrane (Fluid Mosaic model), Endoplasmic reticulum, Golgi complex,Ribosomes and Vacuole.

**Practicals:**

Study of cell organelles with the help of photographs or slides.

**August**

**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).

**Practicals:**

Study of mitosis in suitable plant material.

**September**

**Unit-III: Plant breeding and Evolution.**

1. **Plant Breeding:** Definition and objectives

2. **Methods of Plant breeding:** Definition; Procedure or technique of Pure line selection, Clonal selection, Hybridization, Heterosis (Definition and Scope)

3. **Biostatistics:** Mean, Median, Mode, Standard deviation and Standard error

4. **Evolution:**Neo-Darwinism and Miller's theory.

**Practicals:**

To calculate mean, median, mode and standard error of the given data.

To study the methods of breaking seed dormancy.

**October**

**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.

**Practicals:**

To study the seed viability and percentage seed germination by paper slot method or tetrazolium salt.

**B.Sc. SEMESTER-VI**
**PAPER-II**
**(Phytogeography, Utilization of plants, Techniques and Pharmacognosy)**

**December**

**Unit-I: Phytogeography, Pollution, Natural resources.**

1. **Phytogeography:** Principles of phytogeography, Distribution (Wides, Endemics, Discontinuous species); Climatic regions of India, Phytogeographic 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.

**Practicals:**

To study the morphology, utilization and important chemical constituents of plants mentioned in theory (Utilization of plants).

To study ethnobotanical importance of plants under the different categories mentioned in theory.

**January**

**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 enthnobotanical importance:** Vegetable, Fruits, Seeds, Medicinal and Narcotics (Two plants each with reference to family, parts used and tribal areas)

**Practicals:**

To study the principle and working of microscope, spectrophotometer, centrifuge and gel-electrophoresis apparatus.

To study different adulterants used with reference to drug adulteration.

**February**

**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 andThin Layer Chromatography (TLC))

**Practicals:**

To study biological source, chemical constituents, preparation and uses of drugs obtained from plants mentioned in theory.

**March**

**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.

# NABIRA MAHAVIDYALAYA, KATOL
## DEPARTMENT OF ELECTRONICS
## ACTION PLAN FOR THE SESSION 2023-24

| Month | Action Plan |
|---|---|
| | **First Term Odd Semester 16-06-2023 to 31-10-2023** |
| June | • Setting and redesigning some experiments of Sem. I, III, V. |
| July | • Setting and redesigning some experiments of Sem. I, III, V.<br>• To conduct Bridge Course |
| August | • Arranging the Guest Lectures/Webinars of resource person.<br>• Unit Test<br>• Conduction of Certificate course/Workshop<br>• Awareness towards Scientist works |
| September | • Remedial Classes.<br>• Unit Test<br>• Conduction of Certificate course continue<br>• Awareness towards Scientist work<br>• Students Model Preparation for Avishkar<br>• Arranging Students Development Programs |
| October | • Unit Test<br>• Student Seminar<br>• Awareness towards Scientist work<br>• Students Model Preparation for Avishkar<br>• Motivating the students to participate in Seminar/ Competitions at inter College /State /National level.<br>• Practical Examination |
| | **Winter Vacation 01-11-2023 to 30-11-2023** |
| | **Second Term Even Semester 01-12-2024 to 30-04-2024** |
| December | • Awareness towards Scientist Activity<br>• Students Model Preparation for Avishkar |
| January | • Setting and redesigning some experiments of Sem. II, IV, VI.<br>• Unit Test<br>• Awareness towards Scientist work<br>• Students Model Preparation for Avishkar |
| February | • Arranging the Guest Lectures/Webinars of resource person.<br>• Unit Test<br>• Conduction of Certificate course/ Workshop<br>• To conduct Collage Competition<br>• Awareness towards Scientist work<br>• Students Model Preparation for Avishkar |
| March | • Unit Test<br>• Arranging Students Development Programs<br>• Conduction of Certificate course Continue<br>• Guest Lecture<br>• Practical Examination<br>• Remedial Classes. |
| April | • Unit Test<br>• Student seminar<br>• Field Visit |
| | **Summer Vacation 02-05-2023 to 15-06-2024** |

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

HEAD
DEPARTMENT OF ELECTRONICS
NABIRA MAHAVIDYALAYA, KATOL

# NABIRA MAHAVIDYALAYA, KATOL

TEACHING PLAN (Session 2023-24)

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

| Month | Class | Paper | Topics to be Covered |
|---|---|---|---|
| **First Term (Odd semester) 19-06-2023 to 31-10-2023** | | | |
| July | 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, Erogonomic & 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 |
| August | 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.<br>**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:**<br>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, arithmetic group, logic group, simple programs |

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| | | | |
|---|---|---|---|
| September | 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 .<br>**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**<br>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. |
| October | 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:**<br>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 01-11-2023 to 30-11-2023** | | | |
| **Second Term (Even semester) 01-12-2024 to 30-04-2024** | | | |

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| | | | |
|---|---|---|---|
| December | B.Sc. Sem. I | | **Revision** |
| | B.Sc. Sem. III | | **Revision** |
| | B.Sc. Sem. V | | **Revision** |
| January | B.Sc. Sem. II | II<br><br>I | **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.<br>**Unit I:** Construction, working, characteristics and applications of JFET, MOSFET parameters of JFET and their relationship parameters of MOSFET and their relationship |
| | B.Sc. Sem.IV | I<br><br>II | **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 stability, crystal oscillator, NOT gate based crystal oscillator.<br>**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. |
| | B.Sc. Sem. VI | I | **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. |
| | | II | **Unit I:**<br>Architecture and features, Internal and External memory, Flags, SFR Map, SFR Function, Accumulator, Register B, Port registers (P0, P1, P2 and P3), Pow Management (PCON) |
| February | B.Sc. Sem. II | II<br><br>I | **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<br>**Unit I:** parameters of MOSFET and their relationship<br>**Unit II:** Construction, working, characteristics and applications of Silicon Controlled Rectifier, DIAC, TRIAC and UJT, UJT as relaxation oscillator. |
| | B.Sc. Sem. IV | I<br><br>II | **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.<br>**UnitI:** PC based instruments. Concept of calibration, standards for calibration<br>**Unit II:** Sensors, actuators, transducers, active & passive transducers, characteristics, Passive: Thermistor (NTC & PTC), LM35, L.D.R. photo-transistor |

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|---|---|---|---|
| | 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**<br>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. |
| | | I | **Unit II:** TRIAC and UJT, UJT as relaxation oscillator<br>**Unit III:** Amplifier parameters, notations, concept and definition of h-parameters, open circuit and short circuit tests, Introduction to input impedance, output impedance, |
| | 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 |
| | | II | **Unit II:** Active: Piezo-electric transducer, Digital: pressure sensor (MPXV4006DP) .<br>**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**<br>Subroutine and Stack, Need for Subroutine LCALL and RETURN Instructions, A Instructions, Nesting of subroutine, Stack Operation and Stack Instruction, Branc (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) |
| | | I | **Unit III:** current, voltage and power gains using h parameters, classification of amplifiers<br>**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 |
| | 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 |
| | | II | **Unit III:** colorimeter using LDR ,insect repellent using piezo buzzer<br>**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 |
| | 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**<br>Interfacing with Keyboard, display - LCD (16 x 2), ADC and DAC, LED Matrix and Serial communication with personal computer |
| | B.Sc. Sem. II | I | Revision<br>**Unit IV:** class B Push-pull amplifier, derivation for efficiency, complementary symmetry power |

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|---|---|---|---|
| | | 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 02/05/2023 to 15/06/2024 | | |

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DEPARTMENT OF ELECTRONICS
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## TIME TABLE: ELECTRONICS DEPARTMENT (Senior College) SESSION 2023-2024

| 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 | 12.08-12.56 | 12.56-1.44 | 1.44-2.32 | 2.32-3.20 | 3.20-4.08 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MON | B. Sc.-I (G) / B. Sc.-I (NG) | | | | ELE | | | | | | | | | |
| | B. Sc.-II (G) / B. Sc.-II (NG) | ELE | | | | | | | Elec (Practical) | | | Ele (T) | | |
| | B. Sc.-III (G) / B. Sc.-III(NG) | | | | | ELE | | | | | | | | |
| TUE | B. Sc.-I (G) / B. Sc.-I (NG) | | | | ELE | | | | | | | | | |
| | B. Sc.-II (G) / B. Sc.-II (NG) | ELE | | | | | | | Elec (Practical) | | | Ele (T) | | |
| | B. Sc.-III (G) / B. Sc.-III(NG) | | | | | ELE | | | | | | | | |
| WED | B. Sc.-I (G) / B. Sc.-I (NG) | | | | ELE | | | | | ELE(Practical) | | | | |
| | B. Sc.-II (G) / B. Sc.-II (NG) | | | B | | | B | ELE | | | | | | |
| | B. Sc.-III (G) / B. Sc.-III(NG) | | | R | | ELE | R | | | | | | | |
| THU | B. Sc.-I (G) / B. Sc.-I (NG) | | | E | ELE | | E | | | ELE (Pract) | | | | |
| | B. Sc.-II (G) / B. Sc.-II (NG) | | | A | | | A | ELE | | | | | | |
| | B. Sc.-III (G) / B. Sc.-III(NG) | | | K | | ELE | K | | | | | | | |
| FRI | B. Sc.-I (G) / B. Sc.-I (NG) | | | | ELE | | | | | | | | | |
| | B. Sc.-II (G) / B. Sc.-II (NG) | ELE | | | | | | | | | | | | |
| | B. Sc.-III (G) / B. Sc.-III NG) | | | | | ELE | | ELE(T) | ELE (Practical ) | | | | | |
| SAT | B. Sc.-I (G) / B. Sc.-I (NG) | | | | ELE | | | | | | | ELE(T) | | |
| | B. Sc.-II (G) / B. Sc.-II (NG) | ELE | | | | | | | | | | | | |
| | B. Sc.-III (G) / B. Sc.-III(NG) | | | | | ELE | | ELE(T) | ELE (Practical ) | | | | | |

Theory =18 Practical =18 Tutorial=05 Total Workload =41

Dr. Sachin T. Bahade =20 *Excess Workload =21

HEAD
DEPARTMENT OF ELECTRONICS
NABIRA MAHAVIDYALAYA, KATOL

# NABIRA MAHAVIDYALAYA, KATOL

## DEAPRTMENT OF MICROBIOLOGY

## Departmental Action Plan
## 2023- 2024

| Sr. No. | Events/Particulars | Date /Probable Duration |
|---|---|---|
| 1 | Guest Lecture on Scope of Microbiology and Biotechnology | Second Week of August, 2023 |
| 2 | Swatch Pani Janjagruti Pure Water Campaign(Best Practice I) 2023 | Last Week of September, 2023 |
| 3 | Bio fertilizer Awareness Rally (Best Practices) 2023 | First Week of October 2023 |
| 4 | Guest Lecture Under Active MOU with Arts, Commerce and Science College Pulgaon | First week of October 2023 |
| 5 | Lab Visit Under The MOU of NPKS & LMH Nagpur | Third Week of January 2024 |
| 6 | Lab Visit (Pathology Diagnostic Laboratory) | January 2024 |
| 7 | Educational Visit | January, 2024 |
| 8 | Quiz Competition | Feb, 2024 |
| 9 | Workshop Based on Subject | February, 2023 |
| 10 | Cottage industry Visit | March, 2024 |

15/7/2023

Head
Head
Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya Katol

O/C

# NABIRA MAHAVIDYALAYA, KATOL

## DEAPRTMENT OF BIOTECHNOLOGY

## Departmental Action Plan
## 2023- 2024

| Sr. No. | Events/Particulars | Date /Probable Duration |
|---|---|---|
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15/7/2023

HEAD

Head
Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya Katol

O/C

# NABIRA MAHAVIDYALAYA, KATOL

## DEAPRTMENT OF MICROBIOLOGY

## Academic Calendar
## 2023- 2024

| Sr. No. | Events/Particulars | Date /Probable Duration |
|---|---|---|
| 1 | Theory classless commencement from | 1 August 2023 |
| 2 | Assignments Distribution For Internal Assessment. | 14 August 2023 |
| 3 | Unit Test I | 20 August 2023 |
| 4 | Unit Test II | 1 Sept. 2023 |
| 5 | Student Seminar | 14-21 Sept. 2023 |
| 6 | Unit Test III | 28-29 Sept. 2023 |
| 7 | Semi Surprise Test | 4-5 Oct.2023 |
| 8 | Unit Test IV | 14-19 Oct.2023 |
| 9 | Pre University Examination | Last week of Oct.2023 |
| 10 | Theory classless commencement | 1 Dec. 2023 |
| 11 | Assignments Distribution For Internal Assessment | 2 Jan.2024 |

| | | |
|---|---|---|
| 12 | Unit Test I | 16 Jan. 2024 |
| 13 | Organize Guest Lecture | 2 Feb. 2024 |
| 14 | Unit Test II | 8 Feb.2024 |
| 15 | Student Seminar | 15-22 Feb.2024 |
| 16 | Unit Test III | 2 March 2024 |
| 17 | Multiple Choice Question Competition | 15 March 2024 |
| 18 | Unit Test IV | 22 March 2024 |
| 19 | Pre University Examination | Last week of March 2024 |

15/7/2023

**HOD**

Head
Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya Katol

# NABIRA MAHAVIDYALAYA, KATOL

## DEAPRTMENT OF BIOTECHNOLOGY

## Academic Calendar
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13/7/2023

HOD

Head
Department of Microbiology
& Biotechnology, Nabira
Mahavidyalaya Katol

O/C

# DEPARTMENT OF MICROBIOLOGY 2023-24

| | | | 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 (ThF,S) | | | | | | |
| | | Paper III | NBH (TH,F,S) | | | | Practical II | | | |
| | | Paper IV | DMR (M,T,W) | | | | | | | |
| M.Sc. I I | 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:- Miss. S. M. Shiekh

# DEPARTMENT OF MICROBIOLOGY AND BIOTECHNOLOGY, 2023-24

| | | | 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. I I | 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

**DEAPRTMENT MICROBIOLOGY AND BIOTECHNOLOGY**

**NABIRA AMAHAVIDYALAYA, KATOL**

REF. NO. MB/BTH/23-24 DATE 10/03/24

## DEPARTMENTAL NOTICE

All staff members of the department are here by that a meeting regarding syllabus completion will be held on 10/03/24 at 11.30 am , in the department with HOD.

Inform To

Mrs. A.S. Chandak

Ku. D.M. Ridhorkar

Mrs. S.P. Nbaira

Miss S.M. Shiekh

Head
Department of Microbiology
& Biotechnology Nabira
Mahavidyalaya Katol

Course Completion Status 2023-24

| Sr. No. | Name of Class | Paper | Name of Teacher | Course Completion Status |
|---|---|---|---|---|
| 1 | B.Sc. II | II | Dr. N.B. Hiwarkar | 100%. |
| 2 | B.Sc. IV | II | Dr. N.B. Hiwarkar | 100%. |
| 3 | B.Sc. VI | II | S.M. Sheikh | 100%. |
| 4 | B.Sc. II | I | D.M. Ridhorkar | 100%. |
| 5 | B.Sc. IV | I | D.M. Ridhorkar | 100%. |
| 6 | B.Sc. VI | I | D.M. Ridhorkar | 100%. |
| 7 | B.Sc. II | I | Dr. N.B. Hiwarkar | 100%. |
| 8 | B.Sc. IV | I | Mrs. S.P. Nabira | 100%. |
| 9 | B.Sc. VI | I | Mrs. S.P. Nabira | 100%. |
| 10 | B.Sc. II | II | Mrs. A.S. chandak | 100%. |
| 11 | B.Sc. IV | II | Mrs. A.S. chandak | 100%. |
| 12 | B.Sc. VI | II | Mrs. A.S. chandak | 100%. |
| | | | | |

NABIRA MAHAVIDYALAYA KATOL

Head
Department of Microbiology
& Biotechnology Nabira
Mahavidyalaya Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN-2023-24
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)**

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**Month** **Topics to be covered**

**Semester I/ Paper I**

**June :**

**July:** History and scope of Microbiology.Discovery of microbe, Theorey of biogenesis and abiogenisis.

Contribution of Louis Pasteur, Lister winogradkky,Robert Koach and Beijerink, John TyndalBranches of Microbiology,

**August:**

Prokaryotic cell struature, A typical Bacterial cell structure, Structure of cell wall (+ gram +ve, gram – ve), Cell membrane: Fluid mosaic model, mesosomes, ibosomes,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, Bergys manual ninth edition,numerical classification,

**October**

Apporaches in modern classification: GC:AT Ratio, DNA Hybridization, 16Sr RNA Cataloguining and phylogeny.

**Diwali Vacation**

**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,

**Signature**

**NABIRA MAHAVIDYALAYA, KATOL**

PROFORMA OF TEACHING **PLAN-2023-2024**

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: Streptomysis and theirportance 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- Bcteriophages,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,syntropism, ,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 ans 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**

Bignamides-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-2023-2024

**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)**

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**Month** **Topics to be covered**

**Semester I**

**June:-**

Introduction of Enzymology, Classification of carbohydrates

**July**

Chemistry of Organic constituents and Enzymolology, , 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 modulaters,functional diversity such as holoenzyme,apoenzyme coenzyme,cofactor,prosthetic group,isoenymes,

**October**

Membrane bound enzymes,multienzyme complex, zymogens Structure of Purines pyrimidines,nucleosides,nucleotides,DNA,RNA,AND Various forms of DNATypes of Vitamins, Classification on the basis of solubility functions of vitamins,Hyperand 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,metoonone

**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 photophosphorylaton, Oxidative phosphorylation,and ATP generation

# NABIRA MAHAVIDYALAYA, KATOL

## PROFORMA OF TEACHING PLAN-2023-2024
**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,genrral 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, Inoculam 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,etanol,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. Bioleaching 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-2023-24

**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-treponemma 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.

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

Natural Killer cells, B-Cell biology (Humoral immunity) Primary and secondary immune response, Clonal Selection and clonal deleation (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 Tcell response, . MHC molecules and antigen presentation(diagrammatic), .Cytokines-Defination,types (colony stimulating factors,Interleukins,Tumor necrosis factoralpha)

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 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, Immunofluroscence, Hypersensitivity reactions:Defination,Gel&Commb's Classification.,

**Diwali Vacation**

**November**

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

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

NABIRA MAHAVIDYALAYA KATOL

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:-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.

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Type I (Anaphylaxix) Hypersensitivity:Mechanisms of anaphylaxix,systemic and localized anaphylaxix,prevention of anaphylaxixs, 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, Mantaux test,allergic contact dermatitis.

**Signature**

# NABIRA MAHAVIDYALAYA, KATOL

## PROFORMA OF TEACHING PLAN-2023-2024

**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. III Year (Sem V & VI)**

---

**Month** **Topics to be covered**

**Semester V/ Paper II**

**June**

Concept of gene, muton, recon, cistron.

**July**

Monocistronic and polycistronic gene, gene within gene, spit 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 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)Prapration 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 Rdna into host cell,transformation of cells,identification of transformed cell,selection of clones direct and indirect method.

**December:**

c) Experession 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) Trangenic PLANTS bt Cotton
4) Trangenic animals and clones :Knockout mice,Dollyship.Milching animals.

**Signature**

P.G. DEAPRTMENT OF MICROBIOLOGY
NABIRA MAHAVIDYALAYA KATOL

# Teaching Plan

**SEMESTER - I** M.Sc. M/B

**Paper-I**

**Name of Teacher:- Miss. S.M. Seikh**

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**Topic to Be Covered**

**July**

**1T1 Microbial Metabolism (MM) UNIT-I:** - Carbohydrate and Lipid Carbohydrates as informational Molecules:-Sugar code, Plant Lectins: - ConA, GS4, WGA. Animal:- Galectin A, MBP-1.Viral:- HA, VPI. Bacterial:- LT,CT. Reverse TCA cycle, Biosynthesis of cell wall polysaccharides and bacterial peptidoglycan. Lipid:-Membrane lipids, biosynthesis of membrane phospholipids, ketone bodies.

**August**

**UNIT-II: - Proteins and Nucleic acids Proteins:-**Determination and characteristics of alpha-helix and β-sheets. Concept of protein domain and motif, common motifs and their role in metabolism, protein folding and denaturation curves, role of Chaperones and chaperonins, Biosynthesis of all amino acids. Nucleic acids:-Structural details of Duplex DNA, Unusual structures: palindrome, inverted repeats, mirror repeats, triplet DNA,G tetraplex ,secondary structure of RNA purine and pyrimidine biosynthesis, degradation and regulation, salvage pathway, Inhibitors.

**September- October**

**UNIT-III: - Photosynthesis Anoxygenic photosynthesis:-**Green sulphur bacterial, non-sulphur bacterial, purple phototrophic bacteria. Oxygenic photosynthesis:-Cyanobacterial. Chemolithotrophy:- Hydrogen oxidation and autotrophy in hydrogen bacteria. Oxidation of reduced sulphur compounds and Iron. Bioluminiscence UNIT-IV:-Nitrogen and Sulphur metabolism and methanogenesis. Nitrification and Anammox. Nitrate reduction and Denitrification. Nitrogen fixation: Symbiotic, nonsymbiotic. Sulphate reduction. Methanogenesis, Acetogenesis, Acetate use and autotrophy.

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# Teaching Plan

**SEMESTER - I** M.Sc. M/B

**Paper-II**

**Name of Teacher:- Ku. Dhanshree Ridhorkar**

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**Topic to Be Covered**

**SEMESTER - I**

**Paper-II**

**1T2 Enzymology and Techniques (ET) UNIT-I: -** June - July.

Enzymes kinetics Overview of Michaelis-Menten equation and its transformation, Evaluation of kinetic parameters, Kinetics of bisubstrate reaction, multistep reactions, kinetics of enzyme inhibition, Classification of enzymes

August

**UNIT-II:** - Catalytic mechanisms Concept of active site, determination of active site, acid –base catalysis, covalent catalysis, metal ion cofactors, proximity and orientation effects, preferential binding. Active site determination and mechanism of lysozyme, Active site determination and mechanism of serine protease.

Sept.

**UNIT-III:** - Regulation of Enzyme activity Allosterism, Kinetic analysis of allosteric enzymes Covalent Modification, Feed -back inhibition Membrane bound enzymes, isoenzymes and marker enzymes. Constituitive and inducible enzymes.

Sept - Oct.

**UNIT-IV:** - Techniques Protein: ligand binding studies: association and dissociation constants, co-operative ligand binding MWC or concerted model, sequential model. Enzyme biosensors: General concept, glucose biosensor. Industrial applications of enzymes. Protein engineering.

D.D.

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# Teaching Plan

**SEMESTER - I Paper –III** M.Sc./M/B

**Name of Teacher:- Dr. N. B. Hirulkar**

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**Topic to Be Covered**

**SEMESTER - I**

**Paper –III**

**June- July**

**1T3 Advance Techniques in Microbiology (ATM) UNIT-I:** - Biophysical Techniques-I Determination of size, shape and Molecular weight of Macromolecules:- by Viscosity, CD/ORD, Light scattering, diffusion sedimentation and Centrifugation techniques.

**August**

**UNIT-II:** -Biophysical Techniques-II Electrophoresis: Agarose Gel, SDS-page, two-dimensional gel electrophoresis, capillary electrophoresis, immune-electrophoresis.

**September**

**UNIT-III:** -Microscopical Techniques. Electron Microscopy: SEM, TEM, Staining procedures and microscopy. Fluorescent Microscopy: Staining procedures and Microscopy, FISH. Laser scanning, confocal microscopy. Scanning tunneling and atomic force microscopy. Immunoelectron microscopy, cryoelectron microscopy.

**October**

**UNIT-IV:** -Other advance techniques Blotting techniques: Western, Southern, Northern, Radioimmunoassay. NMR and its biological importance. Site-directed mutagenesis, transcriptional start point mapping.

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# Teaching Plan

**SEMESTER - I Paper –IV** M.Sc. MIB

**Name of Teacher:- Mrs. S.P. Nabira**

**Topic to Be Covered**

**11 SEMESTER – I**

**Paper-IV 1T4 Membrane structure and Signal Transduction (MSST)**

**June- July**

**UNIT-I: - Structure and organization of membranes** Mitochondria, endoplasmic reticulum, prokaryotic membrane, membrane junctions (Gap & tight junctions), techniques for membrane study: electron microscopic method, membrane vesicles, differential scanning colorimetry, flouroscence photobleaching recovery, flow cytometry.

**August**

**UNIT-II: -** Membrane Transport Active and Passive transport, uniport, ATP powered pumps, non-gated ion channels, cotransport by symporters and antiporters, transepithelial transport.

**Sept.-**

**UNIT-III: -** Signal Transduction General concept of cell signaling, G-protein coupled receptors and their effectors. RTK and MAP Kinases. Down regulations of pathways. Cytokine receptors and their mechanism (JAK-STAT pathway).

**Oct.**

**UNIT-IV: -** Bacterial signal transduction Basic two component system. Histidine kinase pathway. Sporulation as a model of bacterial signal transduction. Osmoregulatory pathways. Heat shock proteins. Mating types of yeast.

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# Teaching Plan

**SEMESTER - II Paper-I**

**Name of Teacher: - Dr. N. B. Hirulkar**

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**Topic to Be Covered**

**13 SEMESTER - II Paper-I 2T1**

**Microbial Methods for Environment Management (MMEM)**

Jan – Feb .

**UNIT-I:** - Eutrophication, Biodeterioration and Biomagnification Eutrophication: Microbial changes induced by organic and inorganic pollutants, factors influencing eutrophication process and control of eutrophication. Biodeterioration: Definition and concept of biodeterioration, biodeterioration of woods and pharmaceutical products. Biomagnification: concept and consequences, Biomagnifications of chlorinated hydrocarbons and pesticides.

March .

**UNIT-II:** - Biotransformation and Bioleaching, Biodegradation Biotransformations: metals and metalloids, mercury transformations, biotransformation of pesticides such as hexachlorobenzene. Bioleaching: Bioleaching of ores, leaching techniques and applications. Biodegradation: Biodegradation of plastics.

April

**UNIT-III:** - Pollution Management Waste water management using activated sludge, aerated lagoons, trickling filter, rotary biological contractors, fluidized bed reactors, stabilization ponds. Concept of phytoremediation and applications.

April .

**UNIT-IV:** - Global Environmental Problems Ozone depletion, UV-B, green house effect, acid rain, their impact and biotechnological approaches for management. Acid mine drainage and associated problems. Global warming and climate change.

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## Teaching Plan

**SEMESTER - II Paper-II**

**Name of Teacher: -** S. P. Nabiran

**Topic to Be Covered**

**14 SEMESTERS - II**

**Paper –II 2T2 Microbial Metabolites (MMT)**

Jan -

**UNIT-I:-**

Overview of metabolites Metabolites: General account of metabolites, secondary metabolites. Classification, structure and mode of action of secondary metabolites. Plants secondary metabolites: Digitoxine, Salicylic acid, Mycotoxins-Aflatoxin,

- feb -

**UNIT-II:-** Antimicrobial drugs: Secondary metabolites Antibiotics: History and discovery of antibiotics, Antibiotic resistance, Mechanisms of antibiotic resistance. Structure and mode of action of antibiotics: Aminoglycosides (Amikacin), Carbapenems (Imipenim), Microlids (Azithromycin), Nitrofuran (Nitrofurantoin), Penicillin (Amoxicillin), Quinolones (Gatifloxacin/Ciprofloxacin), Sulphonamides (Sulfamethoxazole),Tetracyclines (Doxycyclines), Chloramphenicol, Fucanazole.

feb - March .

**UNIT-III:-**Pigments as secondary metabolites General account of pigments, Chlorophylls, Carotenoids of eukaryotes, phycobilliproteins. Hemoglobin, Myoglobin, Melanin and bile pigments. Microbial pigments: Bacteriochlorophylls, Carotenoids of prokaryotes, rhodopsin and accessory pigments(Pulcherrimin, indigoidin, voalecin) Defensive role of pigments.

March – April.

**UNIT-IV:-**Microbial vitamins Characteristics of fats and water soluble vitamins. Structure, function and chemistry of: Retinol (vitamin A), Riboflavin (vitamin B2), Cynocobalamine (Vitamin B12) and ascorbic acid (vitamin C).

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## Teaching Plan

**SEMESTER - II Paper-III**

**Name of Teacher: -** .. MJBS SM Sheikh

**Topic to Be Covered**

**15 SEMESTER - II Paper-III**

**2T3 Medical Microbiology and Parasitology (MMP)**

Dec.

**UNIT-I:** - Infection Infection: Definition, Types, stages of infection, process of infection. Establishment of pathogenic microorganisms: Entry, spread and tissue damage. Mechanism of bacterial adhesion, colonization and invasion of mucous membranes of respiratory, enteric and urogenital tracts. Aggresssins and toxins.

Jan.

**UNIT-II:** - Bacteriology Pathogenic Bacteria: Morphological characteristics, Pathogenesis and Laboratory diagnosis including rapid methods of following pathogenic bacteria; Klebsiella pneumoniae; Proteus vulgaris; Proteus mirabilis; Shigella dysenteriae; Pseudomonas aeruginosa: Vibrio cholerae; Streptococcus pneumoniae. New emerging infections:- Streptococcus suis; community associated Methicilin resistant Staphylococcus aureus (MRSA), Bordetella pertusis, Clostridium difficile, Multi drug resistant tuberculosis.

Feb.

**UNIT-III:** - Mycology Pathogenic Fungi: Morphological characteristics, pathogenesis and laboratory diagnosis of following pathogenic fungi:- Microsporum; Trichophyton; Histoplasma capsulatum; Blastomyces dermatitidis; Candida albicans; Cryptococcus neoformans; Pneumocystis carinii.

March.

**UNIT-IV:** - Parasitology Parasites: Entamoeba histolytica; Giardia lamblia; Plasmodium vivax; Leishmania donovani. Helminths: Taenia saginata; Taenia solium; Hymenolepis nana; Schistosoma haematobium.

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# P.G. DEAPRTMENT OF MICROBIOLOGY
# NABIRA MAHAVIDYALAYA KATOL
## Teaching Plan

**SEMESTER - II Paper-IV**

**Name of Teacher: - Ku. D. M. Ridhorkar**

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**Topic to Be Covered**

**16 SEMESTER - II Paper –IV**

**2T4 Immunology and Immunodiagnostics (IID)**

**Dec.**

**UNIT-I: -** Overview of the Immune system and CMI Cells involved in Immune system: Hematopoiesis, Lymphocytes, mononuclear phagocytes, Antigen presenting cells, Granulocytes. Lymphoid organ: Lymphatic system, Primary and Secondary lymphoid organs. Complement System: Pathways of complement activation, regulation of complement system, Biological functions of complement system. Inflammation:

**January**

**UNIT-II: -** Specific Immune Response Cancer and the Immune system: Origin and Terminology, Malignant Transformation of cells, oncogenes and cancer induction, Tumor Antigens, Immune surveillance theory, Tumor evasion of the Immune system, Cancer Immunotherapy. Transplantation Immunology:

**February**

**UNIT-III: -** Immune Dysfunction Immunodeficiency disorders:- Phagocytic cell defect (Chediak-Higashi syndrome); B-cell deficiency (Bruton's X-linked hypogammaglobulinemia); T-cell deficiency disorder (DiGeorge Syndrome); Combined B-cell & T-cell deficiency disorder (SCID-Severe combined immunodeficiency diseases, Wiskott-Aldrich syndrome);

**March.**

**UNIT IV**

Complement deficiencies and secondary immunodeficiency conditions carried by drugs, nutritional factors & AIDS. Autoimmunity and autoimmune diseases:-General consideration, Etiology, Clinical categories.

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**Teaching Plan**

**Semester-III**
**Paper –I**
**Name of Teacher- D.M. Ridhorkar**

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**Topic To Be Covered**

**July**

**UNIT-I: - Replication Repair and Recombination**

**Replication:**-Initiation-Priming in *E.coli* and Eukaryotes.
**Elongation:**-Holoenzyme and processivity of replication.
**Termination:**-In prokaryotes and eukaryotes.
**DNA Repair:**-Direct reversal of DNA damage, Base excision repair by nucleotide excision.
**Homologous recombination:**-Rec BCD; gene conversion.

## August

**UNIT-II: - Gene Expression**

**Transcription:**-Comparative study of prokaryotic and eukaryotic transcription process, Class I, II, III promoters, Enhancers and silencers, General and specific transcription factors.
**Post transcriptional events:**-mRNA, rRNA and tRNA processing through splicing mechanism, trans splicing, RNA editing, post transcriptional control of gene expression, gene silencingly, RNA interference, Catalytic RNA and antisense RNA.
**Translation:**-Initiation, elongation and termination mechanism. Post translational modifications.

## September

**UNIT-III: - Gene Regulation Expression**

Lac, Arabino and trp operons.
Chromatin remodeling and mRNA and protein degradation control.

## October

**UNIT-IV:- Genetics of Bacteria and Bacteriophages**

Gene mapping in bacteria by conjugation, transformation and transduction.
Mapping bacteriophage gene by recombination analysis, deletion mapping and complementation.
Transposons: Bacterial, P elements and retroposons

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**Semester-III**
**Paper –II**
**Name of Teacher- Miss. S.S. Sheikh**

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**Topic To Be covered**

**July**

**UNIT-I: - Molecular Cloning Methods.**

**DNA cloning**, restriction enzymes, cloning vectors, genomic library, cDNA library and chromosome libraries.
Screening and identification of genes, Expression vectors, heterologous probes, oligonucleotide probes, microarrays.
**PCR:** Steps, advantages, limitations, application, RT-PCR,

**August**

**UNIT-II:- Other molecular tools for studying genes**

Restriction mapping: DNA sequencing dideoxy and pyrosequencing, DNA fingerprinting. S1 Mapping, primer expressions, Dnase footprinting, DMS footprinting. Nuclear run on transcription, reporter gene transcription.

**September**

**UNIT-III:- Tissue Culture and stem cell technology**

**Tissue culture:** Tissue culture media and supplements, serum-free media, cell lines and cryopreservation of cells. Primary culture, subculture, suspension culture techniques, transformation
and immortalization. Quantitation and characterization of cells.
**Stem cell technology**-embryonal stem cell and multipotent stem cells, present perspective.

**October**

**UNIT-IV:- RDT Products.**

Tissue plasminogen activator [TPA].Tissue growth factor B. Dnase; **PDGF.**

**GEMS/GMO.**

Transgenic plants and plant products, Comparative account, Concept of nano biotechnology and its application.

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**Teaching Plan**

**M. Sc. Semester-III**
**Paper –III**
**Name of Teacher- Dr.N.B.Hirulkar**

**July**

**UNIT-I: - Microbial Evolution and Systematic**
Evolution of Earth and early life forms.
**Primitive life forms:-**RNA world, molecular coding, energy and carbon metabolism, origin of Eukaryotes, endosymbiosis.
**Methods for determining evolutionary relationships:-**Evolutionary chronometers, Ribosomal RNA sequencing, signature sequences, phyllogenetic probes, microbial community analysis.
**Derivation of Microbial Phyllogeny:-** characteristics of domain of life, classical taxonomy, chemotaxonomy, bacterial speciation.

August

**UNIT-II: -Microbial Diversity: Archea**
General Metabolism and Autotrophy in archea
**Phylum Euryarchaeota:-** Halophilicarchaea, methanogens, thermoplasma.
**Phylum Crenarchaeota:-** Energy metabolism, Thermoproteales, sulfolobales, desulfolobales.
**Phyllum Nanoarchaeota:-** Nanoarchaeum.
Heat stable biomolecules and extremophiles, Evolutionary significance of hyperthermophiles.

September

**UNIT-III :-Microbial Diversity: Bacteria**
**Phylum Proteobacteria:-**Free living N2 fixing bacteria, purple phototrophic bacteria nitrifying bacteria, sulphur and iron oxidizing bacteria, sulphate and sulphur reducing bacteria.
**Phylum prochlorophytes** and cyanobacteria,
**Phylum: Planctomyces,**
**Phylum: Verrucomicrobia.**

October

**UNIT-IV :- Microbial Diversity.**
Phylum: Cytophaga, Phylum: Green Sulfur Bacteria. Phylum: Deinococci.
Phylum: Green non –sulfur bacteria.
Phylum: Branching Hyperthermophiles, Thermotoga and Aquifex.
Phylum: Nitrospira and Deferribacter.

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Teaching Plan

**M.Sc. Semester-III**
**Paper –IV**
**Name of Teacher- Miss. S. P. Nabira**

## July

**UNIT-I: -**
**Drug latentiation and Prodrug:** History, carrier-linked prodrugs, bioprecursors prodrugs, carboxylic acids and alcohols, amines, carboxyl compounds.
**Drug-microbe:** Host relationship, mechanism of drug action and drug resistance including MDR.

## August

**UNIT-II:-**
**Antiinfective agents:** Iodophores (providone-Iodine), Benzylkonium chloride, gentian violet, mercury compounds.
**Antifungal agents:** Clotrimazole, Ketoconazole, Tolnaftate, Amphotericin B, Nystatin, Griscofulvin.
**Antitubercular agents:** Isoniazid, Ethambutol, rifamycin, cycloserine.

## September

**UNIT-III: -**
**Antiprotozoal agent:** Metranidazole, 8-hydroxyquinoline
**Antimalarials:** Quininesulphate, Chloroquine, Primaquine phosphate, Pyrimethamine.

## October

**UNIT-IV:-**
**Histamines and Antihistaminicagents:** Cimetidine, Ramitidine, Omeprazole.
**Analgesic agents:** Morphine and their derivatives anti-inflammatory analgesics- Phenylbutazone and oxyphenbutazone, Prostaglandins.

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**M.Sc. Semester-IV**
**Paper –I**
**Name of Teacher- D.M.Ridhorkar**

**January**

**UNIT-I: - History, Classification and composition of viruses**
Brief outline on discovery of viruses (Origin and evolution), Terminology, Differentiation with other groups of microorganisms.
Nomenclature and classification of viruses (Regenmortel et.al.2005, 8th Report of ICTV).
Genetic classification
Morphology and structure of viruses (size and shape/symmetry).
Chemical composition of viruses (viral capsid, spikes, envelopes and types of viral nucleic acids).
Assay of Viruses.

**FEBRUARY**

**UNIT-II:-Bacterial viruses**
Bacteriophages- Structural organization; life cycle (Extracellular phase; attachment, penetration of nucleic acid, transcription, translation, replication, maturation and release of phage particles) of ΦX174,T4,lambda, $M_{13}$ and $Mu_{Phages}$. Bacteriophage typing, One step growth curve.

## MARCH

**UNIT-III:-Animal and Plant viruses**
Life cycle, pathogenesis and laboratory diagnosis of following viruses.
**Animal Viruses:-**
**RNA viruses:** Picorna, Orthomyxo, Rhabdovirus and HIV.
**DNA viruses:** Pox, Herpes, Adeno and Hepatitis viruses.
**Oncogenic viruses:** Papova viruses, EB virus, HTLV viruses.
**Plant virus:** TMV, Cauliflower mosaic virus, potato virus.

## APRIL

**UNIT-IV:-General methods of Diagnosis and antiviral drugs**
**Serological methods: -**Haemadsorption; Haemadsorption inhibition; haemagglutination; Haemagglutination inhibition(HAI);Complement fixation immunofluorescence methods. ELISA and Radioimmunoassays (RIA).
**Antiviral agents:** Types of IFN, induction and Molecular basis of antiviral effect of interferon
Structure and Mechanism of action of:
Amantadine,Rimantidine,Vidarabine,Acyclovir,Ganciclovir,Ribavirin,Foscarnet, Stavudine, Lamivudine.
**NNRTIS(non-nucleoside RT inhibitors)**-Nevirapine; Delavirdine and Efavirenz.
**Protease inhibitors-** Saquinavir, Indinavir and Ritonavir.

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**M.Sc. Semester-IV**
**Paper –II**
**Name of Teacher- Miss.S.P.Nabira**

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**January**

**UNIT-I:- General Principles of Fermentation**
**Bioreactors:** Bioreactor types, immobilized bioreactors, types of fermentation.
**Fermentation kinetics and Monods Model:**-Growth kinetics and Monod's Model, Substrate accelerated death, specific growth rate, stringent response, Ntr and Pho system, growth limiting substrate, maintenance energy, growth yield and product formation.
**Process optimization:** factors of optimization, rheology of fermentation fluid, oxygenation, and oxygen transfer kinetics. chemostat, turbidostat.

**FEBRUARY**

**UNIT-II:- Downstream Processing and scale up.**
**Downstream processes**: types of processing units and systems, Storage and packaging methods.
**Scale up**; scale down, criteria involved in scale up.
Productivity, power requirements Basic control
theory.

**MARCH**

**UNIT-III: - Industrial Fermentation Products**
***Biofuels:***-Ethanol, Hydrogen, Methane
**Antibiotics:**-β-lactum antibiotics (Synthetic penicillin), Streptomycin, Cephalosporin.
***Biopreservative:*** Lactobacillus sakei. Biopolymers:- Xanthan, Polyhydroxyalkanotes.
**Thermostable enzymes:**-Proteases. Biosurfectants: a comparative account.

**APRIL**

**UNIT-IV:-Food and Healthcare products**
SCP, various types and processes.
Carotenoides **Aminoacids:**-Lysine, Glutamic
acid.
**Vitamins:**-riboflavin,Vit.B12. Fatty acids (Palmetate, oleate).

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**M.Sc. Semester-III**
**Paper –III**
**Name of Teacher- Dr.N.B.Hirulkar**

**January**

**UNIT-I: - Microbial Ecosystems**
Population, guilds, communities, homeostatis, Environment and microenvironment. Biofilms. Terrestrial environment, deep surface microbiology. Fresh water environment, lake and river microbiology. Marine Microbiology and Hydrothermal vents.

**FEBRUARY**

**UNIT-II: - Diversity, stability and succession**
Diversity indices, dominance indices, information statistics indices, Shannon index, Brillouin Index, Rank abundance diagrams, community similarity analysis, Jaccard Coefficient, Sorensen coefficient, cluster analysis. Community stability, stability hypothesis, Intermediate-disturbance hypothesis.
**Meaning of succession:** Tolerance and inhibition patterns of succession, theories of succession.

**MARCH**

**UNIT-III: - Ecology and Genetics**
**Genetic structure of population:-** Genotype frequency, allele frequencies.
**Hardy-Weinberg Law: -** Assumptions, predictions, derivation, extension and natural selection. Measuring genetic variation at protein level, measuring genetic variation at DNA level.
**Factors effecting gene frequencies:-**Mutation, Random genetic drift, migration, Hardy-Weinberg natural selection, Assortative mating, Inbreeding.

**APRIL**

**UNIT-IV: -Interactions and Ecosystem Management**
**Microbial Interactions:** Competetion and coexistence, Gause hypothesis, syntrophy, commensalism and Mutualism, predation, parasitism, and antagonism, Interaction with plants and animals.
**Concept of sustainable development:** microbial technology and sustainable development. Management and improvement of waste land/barren land.
Oil spills, damage and management petroleum and oil shore management.

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**Semester-III**
**Paper –IV**
**Name of Teacher- Mrs. S.P.Nabira**

**January** **Teaching Plan**

**UNIT-I: - Vaccines**

Definition and discovery of vaccines.
Active and passive prophylactive measures.

**General account on :-**

- Exhaltation & attenuation.
- Subunit vaccines
- DNA vaccines
- Vaccines additives and adjuvants

**FEBRUARY**

**UNIT-II: - Conventional vaccines**

Contents and immunization schedule

- BCG
- Hepatitis vaccine
- Influenza vaccine
- Polio vaccine (Inactivated, live attenuated )
- DPT
- MMR

**MARCH**

**UNIT-III: - Advanced vaccines**

- Vaccines in development.
- Malaria vaccines
- Epstain Barr virus vaccines
- Cytomegalo virus vaccines
- HIV vaccines
- Herpes simplex viral vaccines

**APRIL :_ UNIT-IV: - Designing & delivery system.**

- Drug designing
- Non-automated in vitro drug susceptibility testing.
- Rapid tests for susceptibility testing, and antibiotic assay in body fluid
- Drugs & vaccines delivery system.

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# NABIRA MAHAVIDYALAYA, KATOL

## PROFORMA OF TEACHING PLAN-2023-2024

**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)**

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**Month** **Topics to be covered**

**Semester I /Paper I**

**June**

**July** Introduction of Biotechnology & Microbiology,

Contribution of Louise Pasture Robert Koch and Edward Jenner. Microscopy Compound Microscopy. Pprinciple 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 o f 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 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-2023-2024

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, | * | 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 | * | 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. |

# NABIRA MAHAVIDYALAYA, KATOL

## PROFORMA OF TEACHING PLAN-2023-2024

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, | * | 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 | * | 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 * Phospholipids, Plasmalogens, Sphingolipids, terpenoids and Isoprenoids, Str. of steroids.

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

March * Proof reading mechanism, Lock and key and Induced Fit Model, MM Equation, Factors affecting enzyme activity, Enzyme Inhibition Kineties, Brief idea of Irreversible Inhibition, Methods of Enzyme Assay.

**Signature**

# NABIRA MAHAVIDYALAYA, KATOL

## PROFORMA OF TEACHING PLAN-2023-2024

**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 ,B-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 trasamination 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, detrction 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,mesurmenet radioactivity Ionization chambers proportional couters,Geiger-muller counter,

**February**

Solid and liquid scintillation counters Cerenkov radiation measurement of stables 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-2023-2024

**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 visibleSpectrophotometer and its application, Double beam and dual wavelength spectrophotometer

**August**

Principles of IR, Mass spectrophotometer principle, Instrumeutation 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 couters,Geiger-muller counter.

**February**

Solid and liquid scintillation counters, Cerenkov radiation. Measurement of stables 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.

**Signatu**

# NABIRA MAHAVIDYALAYA, KATOL

## PROFORMA OF TEACHING PLAN-2023-2024

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, semiconservativereplication, Use | * | (Initiation, ori C, elongation, termination), Proof for of DNA replication mutant. |
| August Mechanisms- NER, | * | Gene mutations, Types, Mutageus- Physical & Chemical, Repair BER, light induced, SOS. |
| September elongation, | * | Transcription- RNA polymerase, Concept of promoter, Initiation, termination. Role of auxillary 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 Biodetoriation, 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-2023-24

**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)**

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| 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, |

production of haploid (anther culture), protoplast fusion, application of PTC.

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

**February** * Animal tissue and cell culture, tissue culture media, lab facilities, applications, ATC cell culture characteristics, contact inhibition, cell-cell communication, cell senescence. **March** * Cell lines, mortal and immortal, maintainance in lab, rDNA product (Insulin, Vaccine, GH), Gene therapy, IVF in humans and farm animals.

**Signature**

# NABIRA MAHAVIDYALAYA,KATOL

## DEPARTMENT OF COMPUTER SCIENCE

## ACTION PLAN SESSION 2023-2024

The Month-wise Action Plan of the Department for the session 2023-2024 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 |

Head
Department Of Computer Science

Department of Computer Science
Nabira Mahavidyalaya, Katol

# NABIRA MAHAVIDYALAYA,KATOL

## DEPARTMENT OF COMPUTER SCIENCE

**Departmental Time Table**

**SESSION 2023-2024**

| Time → Day ↓ | 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) |

HEAD

Head
Department of Computer Science
Nabira Mahavidyalaya, Katol

# NABIRA MAHAVIDYALAYA, KATOL

## DEPARTMENT OF COMPUTER SCIENCE

## SESSION-2023-2024

The meetings of Department of Computer Science was held on 19th Oct. 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

DEPARTMENT OF COMPUTER SCIENCE

SESSION-2023-2024

The meetings of the Department of Computer Science was held on 12th April 2024 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 2023-2024

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

Deptt :-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 2023-2024

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

# NABIRA MAHAVIDYALAYA,KATOL

## TEACHING PLAN 2023-2024

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

# NABIRA MAHAVIDYALAYA,KATOL

## TEACHING PLAN 2023-2024

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<br>Unit-III:-sharing files with others users,working with processes, |
| March | :- Unit III :-working with processes. |
| April | :- Unit-IV :-managing disk space. |

MB

Signature

# NABIRA MAHAVIDYALAYA,KATOL

## TEACHING PLAN 2023-2024

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 :- | |

MB

Signature

# NABIRA MAHAVIDYALAYA,KATOL

## TEACHING PLAN 2023-2024

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:- compiler 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.<br>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 Anyalysis 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

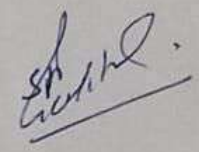
Profoma of Teaching Plan -2023-2024

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.Sc II(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, AWI 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 2023-2024

### Month wise Action Plan

| | | |
|---|---|---|
| August | - | Guest lecture. |
| September | - | Students Workshop. |
| October | - | Debate Competition. |
| November | - | Constitution Day program. |
| December | - | Students seminar on Model Parliament. |
| January | - | National Voters Day Program. |
| February | - | Webinar/ Guest Lecture . |
| March | - | Students Seminar on given assignment. |
| April | - | Unit Test & Assignment. |

Head

Department of Political Science

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

Nabira Mahavidyalaya . Katol, Dist. Nagpur

Time Table for the faculty of Humanities 2023 - 24

| Time → / Day ↓ | Class | 1<br>8:00 – 8:48 | 2<br>8:48 -9:36 | 9:36 – 9:40 | 3<br>9:40 -10:28 | 4<br>10:28 – 11:16 | 11:16 – 11:20 | 5<br>11:20 – 12:08 | 6<br>12:08 – 12:56 |
|---|---|---|---|---|---|---|---|---|---|
| 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) | | ELT (MDL) / MLT (BSK) | ENG (PVS) | | MAR (RRP) | |
| | B. A. II A | PHIL/ECO(BPW/GGN) | POL /H. ECO (HYK/DDG) | | ENG (PVS) | ELT(YPB)/ MLT(RRP) | | POL / H. ECO (HYK / DDG) | ENG (TUT) |
| | B. A. III A | MAR (BSK) | PHIL/ECO(BPW/GGN) | R | HIS (RRD) | POL / H. ECO (HYK / DDG) | R | PHIL / ECO (BPW/GGN) | ELT (PVS) |
| TUE | B.A. I A | ELT (PVS) | ENG (MYR) | | | | | | |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | ELT (MDL) / MLT (BSK) | ENG (PVS) | | MAR (RRP) | |
| | B. A. II A | HIS (RRD) | POL /H. ECO (HYK/DDG) | E | ENG (PVS) | ELT(YPB)/ MLT(RRP) | E | MAR (BSK) | |
| | B. A. III A | POL/H. ECO (HYK/DDG) | PHIL/ECO (BPW/GGN) | | | | | | |
| WED | B.A. I A | ELT (PVS) | ENG (MYR) | | POL / H. ECO (HYK / DDG) | HIS (RRD) | | MAR (BSK) | H.ECO Practical |
| | B. A. I B | MLT (RRP) | MAR (BSK) | C | ELT (MDL) / MLT (BSK) | ENG (PVS) | C | ENG (CSR) | |
| | B. A. II A | HIS (RRD) | PHIL/ECO(BPW/GGN) | | ENG (PVS) | POL /H. ECO (HYK/DDG) | | ELT (MDL) | |
| | B. A. III A | PHIL/ECO(BPW/GGN) | HIS (RRD) | E | HIS (RRD) | PHIL / ECO (BPW/GGN) | E | ENG (TUT) | H.ECO Practical |
| THU | B.A. I A | ELT (PVS) | ENG (MYR) | | | | | POL (HYK) | |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | ELT (MDL) / MLT (BSK) | POL /H. ECO (HYK/DDG) | | ENG (CSR) | H.ECO Practical |
| | B. A. II A | HIS (RRD) | PHIL/ECO (BPW/GGN) | S | ENG (PVS) | ELT(YPB)/ MLT(RRP) | S | MAR (RRP) | |
| | B. A. III A | PHIL/ECO(BPW/GGN) | HIS (RRD) | | PHIL/ECO (BPW/GGN) | MAR (BSK) | | MAR (BSK) | |
| FRI | B.A. I A | ELT (PVS) | ENG (MYR) | | | ENG (CSR) | | HIS (RRD) | |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | ELT (MDL) / MLT (BSK) | HIS (RRD) | | | |
| | B. A. II A | POL (HYK) | PHIL/ECO(BPW/GGN) | S | POL /H. ECO (HYK/DDG) | ELT(YPB)/ MLT(RRP) | S | ENG (TUT) | H.ECO Practical |
| | B. A. III A | HIS (RRD) | HIS (RRD) | | | MAR (BSK) | | MAR (BSK) | ENG (TUT) |
| SAT | B.A. I A | ENG (MYR) | POL /H. ECO (HYK/DDG) | | PHIL/ECO (BPW/GGN) | ENG (CSR) | | MAR (BSK) | |
| | B. A. I B | ENG (CSR) | | | | | | ENG (TUT) | |
| | B. A. II A | MAR (RRP) | ENG (PVS) | | POL /H. ECO (HYK/DDG) | HIS (RRD) | | ECO / PHIL | |
| | B. A. III A | HIS (RRD) | PHIL/ECO (BPW/GGN) | | ELT(YPB)/ MLT(RRP) | ELT (YPB) | | POL (HYK) | H.ECO Practical |

Coordinator
Time Table Committee

Principal
N. M. V. Katol

Nabira Mahavidyalaya Katol
Syllabus Completion Report 2023-2024

Department... political science .....

| Sr. No. | Name of the Teacher | UG/PG | Class / Subject | % Of Syllabus Completed | Approximate Timeline for Syllabus Completion | Sign. |
|---|---|---|---|---|---|---|
| 1 | A. H. Y. Kinkar | UG | B.A II sem WPT | 90% | 08/05/24 | |
| | | | | | | |
| 2 | H. Y. Kinkar | UG | B.A IV sem BGP | 95% | 08/07/24 | |
| | | | | | | |
| (3) | H-Y. Kinkar | UG | B.A VI sem DR. | 96% | 08/05/24 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Date -29/04/2024

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

# Nabira Mahavidyalaya, Katol

**Teaching Plan 2023-2024**

**Name of the Teacher**... H.Y. Kinkar ...**Department** ...political science...
**Subject/Paper**...Major I (POL)... **Class** ...B.A. IInd sem...

| MONTHS | TOPIC TO BE COVERED |
|---|---|
| August | ① Political Theory ② State |
| September | ③ Power ④ Authority |
| October | ⑤ Liberty ⑥ Equality |
| November | ⑦ Rights ⑧ Justice. |
| | [ Diwali vacation 29/10/24 - 28/11/24 ] |
| December | Plato - Ideal State |
| January | Philosopher king |
| | Theory of Justice |
| February | Theory of communism |
| | Aristotle - concept of State |
| March | - classification of State |
| | John Stuart Mill - Liberty. Democracy |
| April | property Government |
| | Karl Marx - Dilectorical materialism |
| May | Class War |
| | Thoughts on states |
| | summer vacation |

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

H. Y. Kinkar

# Nabira Mahavidyalaya, Katol

**Teaching Plan 2023-2024**

**Name of the Teacher**... H. Y. Kimcar ..... **Department** ... Political Science

**Subject/Paper**... Major II (POL) **Class** ..... B.A. I + II Sem

| MONTHS | TOPIC TO BE COVERED |
|---|---|
| August | Mahatma Gandhi - Truth |
| September | Mahatma Gandhi Non-violennce |
| October | Dr. B. R. Ambedkar - Thoughts on caste |
| November | (Diwali vacation 29/10/24 - 28/11/24) |
| December | Ram Manohar Lohia - Thoughts on caste |
| January | - Thoughts on language<br>- Democratic socialism |
| February | Atal Bihari Vajpayee |
| March | - Thoughts on parliam system |
| April | - Thoughts on Democracy<br>- Thoughts on foreign policy |
| May | Summer vacceation |

Prof. Harish Kimcar
H.O.D. Dept. of Political Science
Nabira Mahavidyalaya, Katol

# Nabira Mahavidyalaya, Katol

**Teaching Plan 2023-2024**

**Name of the Teacher.** H. Y. Kinkar **Department** Political science

**Subject/Paper.** OE **Class** BA I + II sem.

| MONTHS | TOPIC TO BE COVERED |
|---|---|
| August | preamble - meaning and Nature |
| September | Fundamental Rights Directive principal |
| October | president, parliament, |
| November | prime minister, supreme court |
| December | Major Issues in Indian politics |
| January | [Diwali vacation 29/10/2024 - 28/11/24] |
| February | (1) Centre State Relations |
| March | (2) Governer, (3) Legislative Assembly |
| April | (4) Legislative council (5) chief minister |
| | (6) High court (7) panchayati Raj |
| | (8) Right to Information acts |
| | (9) 73rd & 74th constitutional Amendment |
| May | summer vacation |

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

H Y Kinkar

# Nabira Mahavidyalaya, Katol

**Teaching Plan 2023-2024**

**Name of the Teacher** H.Y. Kinkar **Department** political science

**Subject/Paper** IGP I SGP **Class** B.A III & IV

| MONTHS | TOPIC TO BE COVERED |
|---|---|
| August | ① preamble ② fundamental rights ③ directive principal of state policy |
| September | ④ president ⑤ parliament |
| October | ⑥ prime minister ⑦ supreme court ⑧ major issues in Indian politics |
| November | [Diwali vaccation 29/10/24 , 28/11/24) |
| December | ① centre - state Relations ② Governer ③ Legislative assembly |
| January | ④ Legislative council ⑤ chief minister ⑥ High court |
| February | ⑦ panchayati raj. ⑧ 73rd & 74th constitutional Amendment |
| March | ⑨ Right to information Acts |
| April | |
| May | Summer vaccation |

H.Y. Kinkar

Prof. Harishkumar Y. Kinkar
H.O.D. Deptt. of Political Science

# Nabira Mahavidyalaya, Katol

**Teaching Plan 2023-2024**

**Name of the Teacher** H.Y. Kinkar **Department** political science

**Subject/Paper** C.P./IR **Class** B.A. I & II sem

| MONTHS | TOPIC TO BE COVERED |
|---|---|
| August | (1) Comparative politics UK / USA |
| | (2) features of Constitutions UK / USA |
| September | (3) political cultures UK / USA |
| | (4) Executive UK / USA (5) Legislature UK / USA |
| October | (6) political parties (7) pressure group |
| | (8) Judiciary |
| November | [Diwali vaccation (29/10/2024 - 28/11/24) |
| December | (1) Theories of IR. |
| January | (1) International Relations |
| | (2) National power (4) foreign policy |
| February | (5) Balance of power |
| | (6) collective security |
| March | (7) Global terrorism |
| April | (8) Human Rights |
| May | summer vaccation |

H.Y. Kinkar

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

# Nabira Mahavidyalaya, Katol, Dist. Nagpur

## Time Table for the faculty of Humanities 2023 - 24

| Time → / Day ↓ | Class | 1<br>8:00 – 8:48 | 2<br>8:48 -9:36 | 3<br>9:36 -10:24 | 10:24 – 10:34 | 4<br>10:34 – 11:22 | 5<br>11:22 – 12:10 | 6<br>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) | | | | | |
| | B. A. II A | PHIL/ECO(BPW/GGN) | POL /H. ECO (HYK/DDG) | ELT (MDL) / MLT (BSK) | | ENG (PVS) | MAR (RRP) | |
| | B.A. II B | PHIL/ECO(BPW/GGN) | MAR (RRP) | ENG (PVS) | | ENG (TUT) | | MLT (BSK) |
| | B. A. III A | MAR (BSK) | PHIL/ECO(BPW/GGN) | ENG (PVS) | | ELT(YPB)/ MLT(RRP) | POL / H. ECO (HYK / DDG) | ENG (TUT) |
| TUE | B.A. I A | ELT (PVS) | ENG (MYR) | HIS (RRD) | | POL / H. ECO (HYK / DDG) | PHIL / ECO (BPW/GGN) | ELT (PVS) |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | R | | | |
| | B. A. II A | HIS (RRD) | POL /H. ECO (HYK/DDG) | ELT (MDL) / MLT (BSK) | | ENG (PVS) | MAR (RRP) | |
| | B.A. II B | HIS (RRD) | POL (HYK) | MLT (BSK) | E | ENG (PVS) | | MAR (RRP) |
| | B. A. III A | POL/H. ECO (HYK/DDG) | PHIL/ECO (BPW/GGN) | ENG (PVS) | | ELT(YPB)/ MLT(RRP) | MAR (BSK) | |
| WED | B.A. I A | ELT (PVS) | ENG (MYR) | POL / H. ECO (HYK / DDG) | C | HIS (RRD) | MAR (BSK) | H.ECO Practical |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | | | ENG (CSR) | |
| | B. A. II A | HIS (RRD) | PHIL/ECO(BPW/GGN) | ELT (MDL) / MLT (BSK) | | ENG (PVS) | ELT (MDL) | |
| | B.A. II B | HIS (RRD) | PHIL/ECO(BPW/GGN) | MLT (BSK) | E | | ENG (PVS) | POL (HYK) |
| | B. A. III A | MAR (BSK) | HIS (RRD) | ENG (PVS) | | POL /H. ECO (HYK/DDG) | ENG (TUT) | H.ECO Practical |
| THU | B.A. I A | ELT (PVS) | ENG (MYR) | HIS (RRD) | | PHIL / ECO (BPW/GGN) | POL (HYK) | |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | S | | ENG (CSR) | H.ECO Practical |
| | B. A. II A | HIS (RRD) | PHIL/ECO (BPW/GGN) | ELT (MDL) / MLT (BSK) | | POL /H. ECO (HYK/DDG) | MAR (RRP) | |
| | B.A. II B | HIS (RRD) | PHIL/ECO(BPW/GGN) | MLT (BSK) | S | POL (HYK) | ENG (TUT) | |
| | B. A. III A | PHIL/ECO(BPW/GGN) | HIS (RRD) | ENG (PVS) | | ELT(YPB)/ MLT(RRP) | MAR (BSK) | |
| FRI | B.A. I A | ELT (PVS) | ENG (MYR) | PHIL/ECO (BPW/GGN) | | MAR (BSK) | HIS (RRD) | |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | | ENG (CSR) | | |
| | B. A. II A | POL (HYK) | PHIL/ECO(BPW/GGN) | ELT (MDL) / MLT (BSK) | | HIS (RRD) | ENG (TUT) | H.ECO Practical |
| | B.A. II B | POL (HYK) | PHIL/ECO(BPW/GGN) | MLT (BSK) | | HIS (RRD) | MAR (RRP) | |
| | B. A. III A | HIS (RRD) | HIS (RRD) | POL /H. ECO (HYK/DDG) | | ELT(YPB)/ MLT(RRP) | PHIL/ECO(BPW/GGN) | ENG (TUT) |
| SAT | B.A. I A | ENG (MYR) | POL /H. ECO (HYK/DDG) | PHIL/ECO (BPW/GGN) | | MAR (BSK) | MAR (BSK) | |
| | B. A. I B | ENG (CSR) | | | | ENG (CSR) | ENG (TUT) | |
| | B. A. II A | MAR (RRP) | ENG (PVS) | POL /H. ECO (HYK/DDG) | | HIS (RRD) | ECO / PHIL | |
| | B.A. II B | ENG (PVS) | MAR (RRP) | POL (HYK) | | HIS (RRD) | PHIL/ECO(BPW/GGN) | |
| | B. A. III A | HIS (RRD) | PHIL/ECO (BPW/GGN) | ELT(YPB)/ MLT(RRP) | | ELT (YPB) | POL (HYK) | H.ECO Practical |

**Coordinator**
**Time Table Committee**

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

**Principal**
**N. M. V. Katol**

# Nabira Mahavidyalaya, Katol, Dist. Nagpur

## Time Table for the faculty of Humanities 2023 - 24

| Period<br>Day | Class | 1<br>8:00 - 8:48 | 2<br>8:48 -9:36 | 3<br>9:36 - 10:24 | 10:24 - 10:34 | 4<br>10:34 - 11:22 | 5<br>11:22 - 12:10 |
|---|---|---|---|---|---|---|---|
| MON | M.A.I | YPB | YPB | MYR | R | MDL | |
| | M.A. II | | MDL | YPB | | MYR | CSR |
| TUE | M.A.I | YPB | YPB | MYR | E | MDL | |
| | M.A. II | | MDL | YPB | | CSR | SR |
| WED | M.A.I | YPB | MDL | MYR | C | CSR | |
| | M.A. II | | YPB | YPB | | MDL | |
| THU | M.A.I | MDL | CSR | MYR | E | CSR | |
| | M.A. II | MYR | YPB | CSR | | MDL | |
| FRI | M.A.I | MDL | CSR | CSR | S | | |
| | M.A. II | MYR | MDL | MYR | | | YPB |
| SAT | M.A.I | MDL | MYR | CSR | S | | |
| | M.A. II | | CSR | MYR | | MYR | |

**Coordinator**
**Time Table Committee**
Dr. P. V. SALAME
Assistant Professor & Head
Dept. of English, N.M.V. KATOL

**Principal**
**N. M. V. Katol**

# Action Plan – 2023-24

## 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 ~~Guardian~~
March 2023 – Guidance about examination to all students.

Date : 30-06-2022

Dr P. V. Salame

# Action Plan (2023-24)

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

# Nabira Mahavidyalaya, Katol
## Department of English
### Teaching Plan

**Session** 2023 – 24

**Subject** compulsory English

**Name Of the Teacher** Dr P. V. Salame

| | Month | Activity/Teaching Plan |
|---|---|---|
| | **August** | Admission |
| V sem | **September** | Poose – The Mother of a Traitor, Speeches at the World's P... Whitewashing the Fence, Appro JRD<br>Personalities – Dhirubhai Ambani, Kalpana Chawla, L.M. Thapar |
| | **October** | Poetry – Dirge, The Mountain and the Squirrel, Life, Annabel Lee.<br>Grammar – Essay writing, Tenses, Inventory Reports. |
| | **November** | |
| VI sem | **December** | Poetry – Bangle Seller, The Soldier, On His Blindness, Invictus<br>Prose – After Twenty Years, The Gold Frame, The Bet<br>Work Borrow Solace. |
| | **January** | Personalities – Rahul Bajaj, G.R. Gopinath, Saber Bhatia<br>Grammar – Punctuation, One word substitution |
| | **February** | Newspaper Report, Drafting Advertisement – |
| | **March** | Unit Test |
| | **April** | Exam. |

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# Nabira Mahavidyalaya, Katol
## Department of English
### Teaching Plan

**Session** 2023-24

**Subject** English Literature

**Name Of the Teacher** Dr P. V. Salame

| | Month | Activity/Teaching Plan |
|---|---|---|
| | August | Admission |
| I sem | September | Background – Elizabethan Age, Jacobean Age, Elizabethan stage, sources of Shakespeare's plays, The University wits.<br>Literary Terms – Elizabethan lyric, sonnet, |
| | October | Senecan Revenge Tragedy, Comedy of Humours, Pastoral Allegory, Madrigal, Aphoristic essay.<br>Poetry – Loving in Truth, Since There is No Help, Shall I compare... |
| | November | To Celia, To Althea, I Prithee send Me Back My Heart.<br>Prose – Of Studies, of Travel, of Marriage, of Parents & Children,<br>Play – Romeo and Juliet. |
| II sem | December | Background – Restoration Age, collapse of Drama, Cavalier Poet, Puritanism, Rise of satire.<br>Lit. Terms – Iambic Pentameter, Conciet, Allegory, Blank verse |
| | January | Heroic couplet, comedy of manners, Paradox.<br>Poetry – A validiction..., The Rally, To His coy Mistress, On His Blindness, The Author to Her Book, To The Virgins.... |
| | February | Novel – Gulliver's Travel<br>Drama – Macbeth |
| | March | Unit Test |
| | April | Exam |

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan

Session 2023-24

Subject Compulsory English - BA-III

Name Of the Teacher P.V. Salame

| Month | Activity/Teaching Plan |
|---|---|
| August | Prose: The mother of a Traitor<br>Speeches at the Parliament of Religions, 1893<br>Poetry:- The Mountain and the Squirrel.<br>Annabel Lee |
| September | Prose: White washing the Fence<br>Appro JRD<br>Personalitjes:- Dhirubhai Ambani<br>Kalpana Chawla<br>L.M. Thapar. |
| October | Poetry: Dirge<br>A Lament<br>Grammar & Composition: Essay writing<br>Tenses, Imentory Reports. |
| November | Diwali Vacation |
| December | Exam. |
| January | Prose: After Twenty Years<br>Work brings Solace<br>Poetry: On his Blindness<br>Bangle Sellers. |
| February | Prose: The Gold Frame<br>The Bet<br>Personalities:- Rahul, Bajaj,<br>G.R. Gopinath, Saber Bhatia |
| March | Poetry:- The soldier<br>Invictus<br>Grammar & Composition:- Punctuation,<br>Reports, Drafting |
| April | Exam |

V Sem

VI Sem

# Nabira Mahavidyalaya, Katol
## Department of English
### Teaching Plan

Session [2023- 24]

Subject Compulsory English → BA-II

Name Of the Teacher P. V. Salame

| Month | Activity/Teaching Plan |
|---|---|
| August | Prose: Taking Studies Seriously<br>A simple Philosophy<br>Poetry: The felling of a Banyan Tree<br>A Workers God |
| September | Prose: The Boy who broke the Bank<br>The Open Window<br>Writing Skills:- Report Writing<br>Data Analysis. |
| October | Poetry: Siddhartha and the swan<br>Life<br>Language Study:- Sentences<br>Vocabulary Building |
| November | Diwali Vacation |
| December | Exam |
| January | Prose: Three Great Hearts resolve a problem<br>Arunima Sinha<br>Poetry: Once Upon a Time<br>I am not that Woman |
| February | Prose: The story of an Hour<br>Too Dear!<br>Writing Skills:- Dialogue Writing |
| March | Poetry: The Butterfly<br>The leaves and the Wind<br>Language Study:- Voice<br>Vocabulary Building |
| April | Exam. |

III sem

IV sem

Nabira Mahavidyalaya, Katol

Department of English

2023-24 Teaching Plan- B.Sc-I Sem I-II [English] C.S. Rathod

| Month | Activity/Teaching Plan |
|---|---|
| August | Prose :- My Struggle for an Education<br>Go Kiss The World!<br>Poetry :- Ulysses |
| September | Prose :- Florence Nightangale<br>Poetry :- Yussouf |
| October | Prose :- The Birth of Khadi<br>Comprehension & Writing skills |
| November | Poetry :- If<br>Grammar :- Articles, Preposition. |
| December | ——— Exam ——— |
| January | Prose :- Two Gentleman of Verona<br>The Verger<br>Poetry :- Allow Sanity a little Space |
| February | Prose :- Grassroot Innovation & Social Enterprise<br>Poetry :- ① Richard Cory ② Refugee Blues |
| March | Prose :- Syntheris of Science and Spirituality.<br>Vocabulary Building. |
| April | ——— Exam ——— |

I sem

II sem

# Nabira Mahavidyalaya, Katol

## Department of English

2023-24 Teaching Plan- BA-I -Sem III [English] [C.S. Rathod]

| Month | Activity/Teaching Plan |
|---|---|
| August | Prose:- What We must learn from the West<br>Mary Kom Interview<br>Poetry:- In the Bazaars of Hyderabad<br>A Walk by Moonlight. |
| September | Prose:- The Naive friends<br>Grammar:- Parts of Speech,<br>Articles,<br>Vocabulary Building. |
| October | Prose:- Fur<br>Poetry:- Kali- The Mother<br>Don't Quit. |
| November | Writing Skills:- Job Application<br>Resume Writing<br>Invitations. |
| December | — Exam — |
| January | Prose:- When Telegrams were Bad<br>The Antidote<br>Poetry:- The School Boy<br>Sympathy |
| February | Prose:- The First Woman Jawan Shanti Tigga<br>Poetry:- Whom Dost Thou friendship<br>Lord Ullin's Daughter. |
| March | Prose:- The Conjurer's Revenge<br>Writing Skills:- Advertisement<br>Meeting.<br>Language Study. [Tenses, Vocabulary Building] |
| April | - Exam — |

I Sem

II Sem

Gath

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan

Session 2023-24 [MA-I English]

Subject English Drama from Elizabethan Age to Restoration Age [Paper-II]

Name Of the Teacher C.S. Rathod

| | Month | Activity/Teaching Plan |
|---|---|---|
| Sem-I | August | Background Topics : Black Death, Peasants Revolt, Cavalier Poets, English Civil War, Poets of Transition, Puritanism. |
| | September | Detailed Study :- John Dryden: Absalom & Achitophel<br>A. Pope: Rape of the Lock<br>Thomas Gray: Elegy written in Country Churchyard |
| | October | Detailed Study :- G. Chaucer - The Prologue to the Canterbury Tales.<br>John Milton - The Paradise Lost (II) |
| | November | Diwali Vacation |
| | December | Exam |
| Sem II | January | Background Topics : Problem Play, Kitchen Sink Drama, Alan Ayckborn, J.M. Barrie, Existentialism, The Abbey Theatre |
| | February | Detailed Study : G. B. Shaw - The Apple Cart<br>John Osborne - Look Back in Anger |
| | March | Detailed Study : T.S. Eliot - The Family Reunion<br>Samuel Beckett - Waiting for Godot |
| | April | Exam |

Rathod

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan

Session 2023-24 [MA-English II]

Subject Romantic and Victorian Poetry [Paper-I]

Name Of the Teacher C.S. Rathod

| Month | Activity/Teaching Plan |
|---|---|
| August | Background Study: Utilitarianism, Chartist Movement The Oxford Movement, Pantheism, Peterloo Massacre of 1819, Sandon's Act of 1876, Mundella's Act of 1888, Pre-Raphaelite School of Poetry |
| Sem III September | Detailed Study :- Wordsworth: Tintern Abbey, French Revolution<br>Coleridge:- Kubla Khan, Christabel<br>Browning's Last Ride Together<br>Tennyson's The Lotus Eaters, Ulysses. |
| October | Detailed Study:- Arnold's Scholar Gypsy, Rossetti's The blessed Damozel,<br>Keats:- Ode on a Urn Shelley: Ode to West Wind<br>Ode on Melancholy Ode to Skylark. |
| November | Diwali Vacation |
| December | Exam |
| Sem IV January | Background Topics : The Decadents, Welsh Poetry, Surrealism, The Urban Poets, Georgian Poetry, Imagism, Found Poetry. |
| February | Detailed Study : T.S. Eliot's The Wasteland<br>Yeats: Second Coming, Leda & the Swan<br>Dylan Thomas: After the Funeral, Do not go Gentle<br>W.H. Auden : Petition, Funeral Blues. |
| March | Detailed Study : Larkin: The Explosion, Ambulances<br>S. Heaney: Exposure, Personal Helicon.<br>A. Motion: Spring Wedding, Better life.<br>Jackie Kay: George Square, Black Bottom. |
| April | Exam |

Rath

# Nabira Mahavidyalaya, Katol
## Department of English
### Teaching Plan

Session 2023 - 24 - Semester - V & VI

Subject English Literature -

Name Of the Teacher Dr. Y. P. Barbuddhe.

| | Month | Activity/Teaching Plan |
|---|---|---|
| Sem. V | August | ① During Wind and Rain - Thomas Hardy<br>② A Prayer for My Daughter - W. B. Yeats<br>③ Bores - E. V. Lucas<br>④ On saying 'Please' |
| | September | ④ On growing old - John Masefield<br>⑤ Anthem for Doomed Youth<br>⑩ The Pleasures of Ignorance - Robert Lynd. |
| | October | ⑧ The Listeners - W. d. Mare<br>⑥ Funeral Blues - W. H. Auden.<br>⑦ Light Breaks Where No sun Shines - D. Thomas |
| | November | ⑪ On Travel by Train - J. B. Priestley.<br>⑫ Literary forms<br>⑬ Literary Terms. Novel - A Mayor of Casterbridge. |
| | December | Exam. |
| Sem VI | January | Poetry :- 1) Endless Time - R. Tagore<br>2) The Soul's Prayer S. Naidu.<br>3) Near Hasting. - Toru Dutt.<br>Prose:- 8) Toasted English. R. k. Narayan |
| | February | 9) Lemon - yellow and fig. M. Malgonkar<br>10) The Lost Child - M. R. Anand<br>11) The Death of a Hero - Jai Nimbkar<br>Poem - 4) Father Returning Home : Dilip Chitre. |
| | March | 5) The Bus - Arun Kolatkar<br>6) The Abandoned British Chemetery at Balasore Jayant Mahapatra.<br>⑦ Voice of the unwanted girl - Sujata Bhatt<br>⑫/⑬ - Literary forms and Literary terms. |
| | April | Exam. |

# Nabira Mahavidyalaya, Katol
## Department of English
### Teaching Plan

Session 2023-24 B.com Semester III & IV

Subject Compulsory English

Name Of the Teacher Dr Yogita P. Barbuddhe.

| Month | Activity/Teaching Plan |
|---|---|
| Sem III<br>August | Unit 1: Prose<br>1) The Chicago Speeches - Swami Vivekananda.<br>2) What Teenagers Need to know about Cybersecurity.<br>3) Values in life - Rudyard Kipling |
| September | Unit - 2. Prose<br>4. Working Bring solace. A.P.J. Abdul Kalam<br>5. Too dear! Leo Tolstoy<br>6. The Pleasures of Ignorance R. Lynd |
| October | Unit - 3. Poetry<br>7. The Tiger and the Deer - Sri Aurobindo<br>8. A Dream within a Dream - Edgar Allan Poe.<br>9. Leisure. W.H. Davis. |
| November | Unit - 4 Writing skills.<br>10. Application letters<br>11. Etiquette and Manners.<br>12. Writing Blogs. |
| December | Unit 5 - Language study.<br>13. Types of sentences<br>14. Tenses.<br>· Exam. |
| Sem IV<br>January | Unit - 1<br>• Gift Ralph W. Emerson<br>• Sudio, what can it Teach Us?<br>• Why We Travel - Pica Iyer |
| February | Unit - 2.<br>• The Doll's House - K. Mansfield.<br>• The Globe of gold. B.C. Chattopadhyay.<br>• The Beggar / Anton Chekhov. |
| March | Unit 3<br>• The Ballad of father Gilligan<br>• God's Grandeur<br>• The Soul's Prayer. S. Naidu. |
| April | • Writing skill · Language study.<br><br>Exam. |

**Nabira Mahavidyalaya, Katol**

**Department of English**

**Teaching Plan**

**Session** 2023-24 M.A. Eng. Semester III & IV

**Subject** Nineteenth Century American Literature.

**Name Of the Teacher** Dr Y.P. Barbuddhe.

| Month | Activity/Teaching Plan |
|---|---|
| Sem III<br>August | Unit I.<br>• Topics of Background.<br>• Detail Study. 1) Emerson<br>2) Thoreau. |
| September | Unit. II<br>• Background study.<br>• Detail study. 1) Walt Whitman |
| October | Unit- III<br>• Background study.<br>• Detail Study - N. Hawthorne |
| November | Unit- IV<br>• Background Study<br>• Melville : Moby Dick. |
| Sem IV<br>December | |
| January | Unit I<br>• Background Topics<br>• Detail study -<br>1) Robert Frost |
| February | Unit II<br>• Background Topics.<br>• Detail study - Hemingway. |
| March | Unit III<br>• Background Topics.<br>• Detail study - The Winter of our Discontent. |
| April | Unit IV<br>• Background study.<br>• Arthur Miller : Death of a salesman. |

# Nabira Mahavidyalaya, Katol
## Department of English
### Teaching Plan

Session 2023 - 24 M.A. Semester - I & II

Subject The English Novel - I

Name Of the Teacher Dr Y. P. Barkudelhe

Semester I

| Month | Activity/Teaching Plan |
|---|---|
| August | Unit I.<br>• Background Topics<br>• Henry Fielding : Tom Jones. |
| September | Unit - II<br>• Background Topics<br>• W.M. Thackeray - Vanity Fair |
| October | Unit - III<br>• Background Topics.<br>• Charles Dickens - Great Expectation. |
| November | Unit - IV<br>• Background Topics.<br>• Joseph Conrad : Heart of Darkness. |
| December | Exam. |

Semester II

| | |
|---|---|
| Unit :-I | • Background Study<br>• James Joyce : A Portrait of the Artist as a Young Man. |
| January | Unit - II<br>• Background study.<br>• Virginia Woolf : Mrs. DalloWay |
| February | Unit - III<br>• Background study.<br>• George Orwell : Animal Farm |
| March | Unit - IV :<br>• Background study<br>• Doris Lessing : The Grass is singing. |
| April | Exam |

Barkudel

# Nabira Mahavidyalaya, Katol

## Department of English (23-24)

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

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

# Nabira Mahavidyalaya, Katol
## Department of English
### Teaching Plan

Session 2023-24 (B.A-I sem)

Subject Compulsory English

Name Of the Teacher Dr. M.G. Raut

| Month | Activity/Teaching Plan |
|---|---|
| August | Admission |
| September (I st Sem) | Unit-I : Prose<br>1. What we must Learn from the West. 2. The Naive Friends<br>Unit-II : Poetry<br>1. Kali, the mother 2. Daniel Rail |
| October | Prose : 2. Mary Kom Interview : 'I was pretty confident about myself. 4. Fur.<br>Poetry : 3. In the Bazaars of Hyderabad 4) A walk by evening.<br>Writing skill : Job application, Resume Writing. |
| November | |
| December | Unit-IV : Language study<br>1) Part of speech, Articles, Synonyms, Antonyms and Homonyms.<br>Writing skill :- Invitation, complaint letter. |
| January (II nd Sem) | Unit-I : Prose<br>1. When Telegrams were Bad<br>2. The First Woman Jawan Shanti Tigga<br>3. The Antidote 4. The Conjurer's Revenge |
| February | Unit-II : Poetry<br>1. The School Boy 2. When Dost Thou Worship<br>3. Sympathy 4. Lord Ullin's Daughter. |
| March | Unit-III : Writing skill<br>1. Business Communication - Part-II<br>2. Skill Based on the Prescribed text. |
| April | Unit IV : Language Study<br>1. Tenses, Degree of Comparison<br>2. Vocabulary Building. |

# Nabira Mahavidyalaya, Katol

## Department of English

### Teaching Plan

Session 2023-24 (M.A-I$^{st}$ and II$^{nd}$ Sem.)

Subject Dalit literature

Name Of the Teacher Dr. M. Y. Raut

I$^{st}$ semester

| Month | Activity/Teaching Plan |
|---|---|
| August | Unit-I: (Essays and Articles)<br>• Topics for Background study:<br>• Texts for Detailed study: 1) Arjun Dangle: 2) Sharankumar Limbale |
| September | Unit-II: (Poetry)<br>• Background Study<br>• Detailed study: 1) Namdeo Dhasal 2) Jyoti Lanjewar 3) Lakhdas Yashwant |
| October | Unit-III: (Self-Narratives and Play)<br>• Background study<br>• Detailed study: 1) Omprakash Valmiki 2) Datta Bhagat |
| November | Unit-IV (Short-Stories)<br>• Background Study<br>• Detailed Study: 1) Bandhu Madhav 2) Laxman Mane 3) P. E. Sonkambale. |
| December | Exam |
| January | |
| February | |
| March | |
| April | |

# Nabira Mahavidyalaya, Katol
## Department of English
### Teaching Plan

Session 2023-24 (M.A. III^rd and IV^th Sem)

Subject Dalit Literature - I

Name Of the Teacher Dr. M.Y. Raut

| Month | Activity/Teaching Plan |
|---|---|
| August | Admission |
| September (III Sem) | Unit - I :<br>. Topics for Backgrounds.<br>. Detail study: 1) Arjun Dangle : Dalit Literature Past, Present and Future. |
| October | Unit - II<br>. Topics for Backgrounds<br>. Detail study: 1) Sharatchandra Muktibodh<br>2) Baburao Bagul. |
| November | Unit - III<br>. Topics for Background<br>. Detail study: 1) M.N. Wankhade |
| December | Unit - IV<br>. Topics for Background:<br>. Detail study: 1) Sharad Kumar Limbale |
| January (IV Sem.) | Unit - I :<br>. Topics for Background<br>. Text for detail study: 1) Datta Bhagat. |
| February | Unit - II:<br>. Topics for Background.<br>. Detail study: 1) Om Prakash Valmiki |
| March | Unit - III<br>. Background topics:<br>. Detail study: 1) Narayan Kardak 2) Daya Pawar<br>3) Vilas Rashinkar. |
| April | Unit - IV :<br>. Background topics<br>. Detail study: 1) Narayan Surve<br>2) Shankarao Kharat. |

# Nabira Mahavidyalaya, Katol

## Department of English

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

| Month | Activity/Teaching Plan |
|---|---|
| Semester I<br>Unit I-<br>August | • Background Topics.<br>• Text for Detail study - Henry Fielding<br>Tom Jones |
| September | Unit - II<br>• Background Topics.<br>• Text for Detail Study - Mary Shelley - Frankenstein |
| October | Unit - III<br>• Background Topics<br>• Text for Detail Study - Jane Austen - Mansfield Park |
| November | Unit - IV<br>• Background Topics<br>• Text for Detail study - Walter Scott - Ivanhoe |
| Semester II<br>December | Unit - I<br>• Background Topics<br>• Text for Detail study - Emily Bronte - Wuthering Heights |
| January | Unit - II<br>• Background Topics<br>• Text for Detail study - Thomas Hardy : Far from Madding Crowd |
| February | • Unit III<br>• Background Topics<br>• Text for Detail study - Henry James - The Portrait of a Lady |
| March | Unit IV<br>• Background Topics<br>• Text for Detail study. William Golding<br>Lord of Flies. |
| April | Exam. |

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

Nabira Mahavidyalaya, Katol

Department of English

Teaching Plan

Session 2023-24 M.A. English

Subject The English Prose

Name Of the Teacher Dr Y.P. Barbuddhe, Dr. M.Y. Raut.

| | Month | Activity/Teaching Plan |
|---|---|---|
| Sem I | August | Unit-I<br>Background study Topics<br>Detail study - Dr. Samual Johnson |
| | September | Unit-II<br>Background study Topics<br>Detail study - James Boswell |
| | October | James Boswell : Life of Johnson |
| | November | |
| | December | |
| Sem II | January | Unit-I<br>Background Topics<br>Text for detail study |
| | February | 1. Thomas Carlyle : The Hero as Poet<br>2. John Ruskin : Sesame and Lilies |
| | March | Unit-II Background study Topics<br>Detail Study -<br>Joshua Slocum : Sailing Alone Around the World. |
| | April | |

Y.P. Barbuddhe

Mr. M. D. Lad

# Nabira Mahavidyalaya, Katol

## Department of English 2023 – 24

Teaching Plan- B. A. II year (3rd & 4th sem) English Literature

| Month | Activity/Teaching Plan |
|---|---|
| August | Unit I A) Background Reading & Literary Terms : Historical, Social & cultural Background. B) Literary forms - Epistolary, Gothic Novel, Historical Novel, Elegy, Ode etc. |
| September | Unit II Poetry ① Elegy written in Country churchyard ④ Ode to the West wind ② World is too much with us ⑤ Grecian Urn ③ Kubla Khan ⑥ She walks in Beauty |
| October | Unit III Novel : Pride & Prejudice Unit IV Drama : She Stoops to Conquer Revision of the topics. |
| November | —— Diwali Vacation —— |
| December | ——3rd Semester Examination —— |
| January | Semester IV Unit I. A) Historical, Social & cultural Background B) Literary Terms.: Dramatic Monologue, Anaphora, Enjabment etc |
| February | Unit II Poetry ① Ulysses ④ success is counted sweetest ② My last Duchess ③ O Captain! My Captain! ③ Dover Beach |
| March | Unit II Poetry : ⑥ On Being Brought from Africa to America Unit III Prose: Dream Children, Walking Tour Unit IV Drama: Oliver Twist |
| April | Unit IV Drama: Oliver Twist Revision —— Examination of 4th semester —— |

Nabira Mahavidyalaya Katol
Department of English
Syllabus Completion Report 2023-2024 (Even Semester)

| Sr. No. | Name of the Teacher | UG/PG | Class / Subject | % Of Syllabus Completed | Approximate Timeline for Syllabus Completion | Sign. |
|---|---|---|---|---|---|---|
| 1. | Dr P. V. Salame | UG | B.A. I, ELT | 100% | — | |
| | | | B.A. II A, Comp. Eng. | 100% | — | |
| | | | B.A. II B, —" | 100% | — | |
| | | | B.A. III —" | 100% | — | |
| 2. | Mr. C.S. Rathod | UG | BA-I, C. English | 95% | 4 days | |
| | | | BSc-I, C. English | 100% | — | |
| | | PG | MA-I (English) EPRPA | 100% | — | |
| | | | MA-II (English) TWP | 100% | — | |

Date -29/04/2024

Head

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

Nabira Mahavidyalaya Katol
Department of English
Syllabus Completion Report 2023-2024 (Even Semester)

| Sr. No. | Name of the Teacher | UG/PG | Class / Subject | % Of Syllabus Completed | Approximate Timeline for Syllabus Completion | Sign. |
|---|---|---|---|---|---|---|
| 3. | Dr. M.Y. Raut | UG | B.A-I, Comp. English | 100% | — | |
| | | | B. Comm-I, Comp. English | 100% | — | |
| | | | B. Comm-II Comp. English | 100% | — | |
| | | PG | M.A-I (English) Dalit Lit. | 100% | — | |
| | | | M.A-II (-11-) Dalit Lit. | 100% | — | |
| 4. | Dr. Y.P. Barbuddhe | UG | B.A-III English Literature | 100% | — | |
| | | | B.Com-II Com. English | 100% | — | |
| | | PG | M.A-I (Eng) Paper III Engl Novel | 100% | — | |
| | | | M.A-II (Eng) Paper III Eng Literature | 90% | 3 day | |

Date -29/04/2024

Head
(P.V. Salame)

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

Nabira Mahavidyalaya Katol
Department of English
Syllabus Completion Report 2023-2024 (Even Semester)

| Sr. No. | Name of the Teacher | UG/PG | Class / Subject | % Of Syllabus Completed | Approximate Timeline for Syllabus Completion | Sign. |
|---|---|---|---|---|---|---|
| 5. | Manish Lad | UG | B.A. IV sem (English Literature) | 90% | 3 days | |
| | | UG | B.Com II sem (Comp. English) | 95% | 1 day | |
| | | PG | M.A. 2 year (English Poetry) | 100% | — | |
| | | P.G. | M.A. II year (Literary Criticism) | 80% | 4 days | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Date -29/04/2024

Head
(P.V. Salame)

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

# NABIRA MAHAVIDYALAYA, KATOL

## DEPARTMENT OF MARATHI

## SESSION 2023-2024

## Month Wise Action Plan

| Month | | Activity/Events |
|---|---|---|
| July | - | Admission for B.A. I Semester |
| August | - | Students Motivation, Bridge course. |
| September | - | Guest Lecture / Group Disction |
| October | - | Essay Competition |
| January | - | Marathi Bhasha Savardhan Pandharwada |
| February | - | Marathi Bhasha Gaurav Din / Birth Ceremony for Kusumagraj |
| March | - | Natyavlokan |

R Pathak

Dr. R.R. Pathak
Department of Marathi (HOD)
Nabira Mahavidyalaya, Katol

NABIRA MAHAVIDYALAYA KATOL

Nabira Mahavidyalaya, Katol, Dist. Nagpur

## Time Table for the Department of Marathi 2023-24

| Time → / Day ↓ | 1<br>8:00 – 8:48 | 2<br>8:48 -9:36 | 3<br>9:36 -10:24 | 4<br>10:34– 11:22 | 5<br>11:22 – 12:10 | 6<br>12:10– 12:58 |
|---|---|---|---|---|---|---|
| MON | B A I A+B MLT RRP | | | B.A III MLT RRP | B.A II MAR RRP | |
| | B.A. III -Mar. BSK | | B.A. II -MLT- BSK | | | B.A. I MLT-BSK |
| | B Com. II Mar V.R.V | | | | | B Com. I Mar V.R.V. |
| TUE | B A I A+B MLT RRP | | | B A III MLT RRP | B.A II MAR RRP | |
| | | B.A. I-(B)-Mar-BSK | B.A. -II -MLT-BSK | | B.A. III -Mar. BSK | |
| | B.Com. II Mar. V.R.V. | | | | | B Com. I Mar V.R.V |
| WED | B A I A+B MLT RRP | | | | | |
| | B.A. III Mar BSK | B.A. I-(B) Mar-BSK | B.A. II - MLT- BSK | | B.A. I-(A) Mar. BSK | |
| | B.Com. II Mar V.R.V. | | | | | |
| THU | ~~B Com I~~<br>B.A I A+B MLT RRP | | | B.A III MLT RRP | B A II MAR RRP | |
| | B Sc I Mar BSK | B.A. I-(B) Mar. BSK | B.A. -I - MLT. BSK | | B.A. III (A) Mar. BSK | |
| | B.Com I Mar. V.R.V. | | | | | |
| FRI | B A I A+B MLT RRP | | | B A III MLT RRP | | |
| | B Sc I Mar B SK | B.A. I-(B) Mar-BSK | B.A. II - MLT- BSK | B.A. I-(A) Mar-BSK | | |
| | B.Com I Mar. V.R.V. | | | | | |
| SAT | B A II Mar R.RP | | BA III MLT RRP | | | |
| | B Sc I MAR BSK | | | B.A. I-(A) Mar- BSK | B.A. I (A) Mar-BSK | |
| | B.Com. I Mar. V.R.V | | | | | B Com II Mar. V.R.V. |

Head Marathi
N. M. V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2020-2023 - 24

To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Dr R.R. Pallalc Dept : Marathi

Subject/Paper : Mar / Mil Class : B A I, II III

| Months | | Topic to be covered |
|---|---|---|
| August : | BA I | ~~काव~~ आत्मचरित्र ( माझी जन्मठेप ) |
| | BA II | साहित्यरंग पाठ क्र. 1, 2 |
| | BA III | कादंबरी पूर्णामायची लेकर |
| September : | B.A I | माझी जन्मठेप |
| | BA II | पाठ क्र 3, 4 |
| | BA III | पूर्णामायची लेकर |
| October : | BA I | माझी जन्मठेप |
| | BA II | पाठ क्र 5 , व्यावहारिक मराठी |
| | BA III | पूर्णामायची लेकर |
| November : | | दिवाळी सुट्या |
| December : | BA I | प्रतिभासाधन |
| | B.A II | कविता 1, 2, 3, 4 |
| | BA III | दलित साहित्य |
| January : | BA I | नटसम्राट |
| | BA II | साहित्यरंग, पाठ 1, 2 |
| | BA III | एक होता कार्वर |
| February : | BA I | नटसम्राट |
| | BA II | साहित्यरंग पाठ क्र. 3, 4 |
| | BA III | एक होता कार्वर |
| March : | BA I | नटसम्राट |
| | BA II | साहित्यरंग व कविता 1, 2 |
| | BA III | एक होता कार्वर |
| April : | BA I | प्रतिभासाधन |
| | BA II | साहित्यरंग कविता क्र 3, 4 व्यावहारिक मराठी |
| | BA III | प्राचीन मराठी साहित्याचा इतिहास |
| May : | | |
| June : | | |

NABIRA MAHAVIDYALAYA

RRPallalc

Signature

**Nabira Mahavidyalaya, Katol**
**Proforma of Teaching Plan – 2023-2024**
**Name of the Teacher :- Dr. Bharat S. Kadbe**

**Dept : Marathi**

**Class :- B.A. I$^{st}$, II$^{nd}$, III$^{rd}$ Year, B.Sc.-I$^{st}$ Year**
**Subject - (01) साहित्यरंग भाग --- ०१**
**(02) मराठी साहित्य --- ०२**
**(03) साहित्यरंग भाग --- ०३**
**(04) साहित्यसेतू भाग --- ०१**

**B.A. Semester I$^{st}$, V$^{th}$ (Compulsory Marathi)**
**B.A.Semester-III-(Marathi Literature)**
**B.Sc.-Semister -I (Compulsory Marathi)**

| Months | Class/ Semester | Topic to be Coverd |
|---|---|---|
| JULY 2023 | B.A.I ( A+B) -- साहित्यरंग भाग -०१ | गद्य – पाठ – १<br>पद्य – कविता – १ |
| | B.A.II मराठी साहित्य भाग -०२ | घटक -०१ |
| | B.A.III साहित्यरंग भाग -०३ | गद्य – पाठ – १<br>पद्य – कविता – १ |
| | B.Sc. -I साहित्यसेतू भाग -०१ | गद्य – पाठ – १<br>पद्य – कविता – १ |
| AUGUST 2023 | B.A.I ( A+B) साहित्यरंग भाग -०१ | गद्य – पाठ – २<br>पद्य – कविता – २ |
| | B.A.II मराठी साहित्य भाग -०२ | घटक -०२ |
| | B.A.III - साहित्यरंग भाग -०३ | गद्य – पाठ – २<br>पद्य – कविता – २ |
| | B.Sc. -I साहित्यसेतू भाग -०१ | गद्य – पाठ – २<br>पद्य – कविता – २ |
| SEPTEMBER 2023 | B.A.I ( A+B) साहित्यरंग भाग -०१ | गद्य – पाठ – ३<br>पद्य – कविता –३ ,<br>व्यावहारिक मराठी पाठ – १,<br>भाषिक कौशल्याधारित अभ्यासघटक |
| | B.A.II मराठी साहित्य भाग -०२ | घटक -०२ |



NABIRA MAHAVIDYALAYA KATOL

Dr. B.S. Kadbe

| | | | |
|---|---|---|---|
| | B.A.III - | साहित्यरंग भाग -०३ | गद्य – पाठ – ३,<br>पद्य – कविता – ३<br>व्यावहारिक मराठी |
| | B.Sc. -I | साहित्यसेतू भाग -०१ | गद्य – पाठ – ३<br>पद्य – कविता – ३<br>व्यावहारिक मराठी |
| OCTOBER 2023 | B.A.I ( A+B) | साहित्यरंग भाग -०१ | गद्य –पाठ – ४,<br>पद्य – कविता – ४<br>व्यावहारिक मराठी<br>भाषिक कौशल्याधारित अभ्यासघटक |
| | B.A.II | मराठी साहित्य भाग -०२ | घटक -०३ |
| | B.A.III - | साहित्यरंग भाग -०३ | गद्य – पाठ – ४<br>पद्य – कविता – ४<br>व्यावहारिक मराठी |
| | B.Sc. -I | साहित्यसेतू भाग -०१ | गद्य – पाठ –४<br>पद्य – कविता – ४<br>व्यावहारिक मराठी |
| NOVEMBER 2023 | B.A.I ( A+B) | साहित्यरंग भाग -०१ | गद्य –पाठ –५<br>पद्य – कविता – ५<br>व्यावहारिक मराठी<br>भाषिक कौशल्याधारित अभ्यासघटक |
| | B.A.II | मराठी साहित्य भाग -०२ | घटक -०४ |
| | B.A.III | साहित्यरंग भाग -०३ | गद्य – पाठ -५<br>पद्य –कविता – ५<br>व्यावहारिक मराठी |
| | B.Sc. -I | साहित्यसेतू भाग -०१ | गद्य – पाठ – ५<br>पद्य –कविता – ५<br>व्यावहारिक मराठी |
| December,2023 | UNIVERSITY EXAM | | UNIVERSITY EXAM |



NARBIRA MAHAVIDYALAYA KATOL

Dr. B. S. Kadhe

## B.A. Semester II[st], VI[th] (Compulsory Marathi)
## B.A.Semester-IV-(Marathi Literature)
## B.Sc.-Semister -II (Compulsory Marathi)

| Months | Class/ Semester | | Topic to be Coverd |
|---|---|---|---|
| January 2024 | B.A.I ( A+B) | साहित्यरंग भाग -०१ | गद्य – पाठ -१<br>पद्य – कविता - १ |
| | B.A.II | मराठी साहित्य भाग -०२ | घटक - ०१ |
| | B.A.III - | साहित्यरंग भाग -०३ | गद्य – पाठ -१<br>पद्य – कविता -१ |
| | B.Sc. -I | साहित्यसेतू भाग -०१ | गद्य – पाठ -१<br>पद्य – कविता -१ |
| February 2024 | B.A.I ( A+B) | साहित्यरंग भाग -०१ | गद्य – पाठ -२<br>पद्य – कविता -२ |
| | B.A.II | मराठी साहित्य भाग -०२ | घटक - ०२ |
| | B.A.III - | साहित्यरंग भाग -०३ | पद्य – कविता -२<br>गद्य – पाठ -२ |
| | B.Sc. -I | साहित्यसेतू भाग -०१ | गद्य – पाठ -२<br>पद्य – कविता -२ |
| March 2024 | B.A.I ( A+B) | साहित्यरंग भाग -०१ | गद्य – पाठ -३<br>पद्य – कविता - ३<br>व्यावहारिक मराठी<br>भाषिक कौशल्याधारित अभ्यासघटक |
| | B.A.II | मराठी साहित्य भाग -०२ | घटक -०२ |
| | B.A.III - | साहित्यरंग भाग -०३ | गद्य – पाठ – ३<br>पद्य – कविता -३<br>व्यावहारिक मराठी |
| | B.Sc. -I | साहित्यसेतू भाग -०१ | गद्य – पाठ – ३<br>पद्य – कविता -३<br>व्यावहारिक मराठी |



NAGBIRA MAHAVIDYALAYA KATOL

Dr. B.S. Kadhe

| | | | |
|---|---|---|---|
| April 2024 | B.A.I ( A+B) | साहित्यरंग भाग -०१ | गद्य – पाठ - ४<br>पद्य – कविता- ४<br>व्यावहारिक मराठी<br>भाषिक कौशल्याधारित अभ्यासघटक |
| | B.A.II – | मराठी साहित्य भाग -०२ | घटक -०३ |
| | B.A.III - | साहित्यरंग भाग -०३ | गद्य – पाठ – ४<br>पद्य – कविता - ४<br>व्यावहारिक मराठी |
| | B.Sc. -I | साहित्यसेतू भाग -०१ | गद्य – पाठ – ४<br>पद्य – कविता - ४<br>व्यावहारिक मराठी |
| May 2024 | B.A.I ( A+B) | साहित्यरंग भाग -०१ | गद्य – पाठ - ५<br>पद्य – कविता – ५<br>व्यावहारिक मराठी<br>भाषिक कौशल्याधारित अभ्यासघटक |
| | B.A.II | मराठी साहित्य भाग -०२ | घटक - ०४ |
| | B.A.III - | साहित्यरंग भाग -०३ | गद्य – पाठ – ५<br>पद्य – कविता – ५<br>व्यावहारिक मराठी |
| | B.Sc. -I | साहित्यसेतू भाग -०१ | गद्य – पाठ – ५<br>पद्य – कविता – ५<br>व्यावहारिक मराठी |
| JUNE-2024 | UNIVERSITY EXAM | | UNIVERSITY EXAM |

NAVBIRA MAHAVIDYALAYA KATOL

डॉ.भारत कडबे
सहाय्यक प्राध्यापक
मराठी विभाग

# नबीरा महाविद्यालय,काटोल.
# अध्यापन आराखडा - २०२३ -२०२४

प्राध्यापकाचे नाव : विनोद रामदास वंजारी  विभाग : मराठी

विषय /पेपर : मराठी  वर्ग : बी.कॉम. - सत्र : १

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रुजू दिनांक - १ ऑगस्ट २०२३

| महिना | घटक |
|---|---|
| ऑगस्ट | **घटक - १ - गद्य विभाग.** |
| सप्टेंबर. | १ - भारतीय लोकशाहीचे भवितव्य<br>२ - काळी आई<br>३ - संत तुकारामांचे अभंग<br>४ - माझी शाळा<br>५ - समतेचे वारकरी : संत गाडगे बाबा आणि राष्ट्रसंत तुकडोजी महाराज<br>६ - लोककल्याणकारी राजा : छत्रपती शाहू महाराज |
| ऑक्टोबर. | **घटक - २ - पद्य विभाग.**<br>१ - ज्ञानेश्वरांचे अभंग<br>२ - वनसुधा<br>३ - नवा शिपाई<br>३ - मेंढर<br>४ - पोरी<br>५ – गाव |

## दिवाळी : १ नोव्हेंबर ते ३१ नोव्हेंबर.

| | |
|---|---|
| डिसेंबर. | **घटक - ३ - व्यावहारिक मराठी.**<br>१ - म्हणी<br>२ - मुलाखतलेखन<br>**घटक - ४ - रोजगाराभिमुख मराठी - व्यावहारिक कौशल्ये.**<br>१. प्रत्यक्ष मुलाखत कौशल्य<br>२. वाचन कौशल्य – अ ) बातमी वाचन ब) कथा वाचन |

NABIRA MAHAVIDYALAYA KATOL

1382

वर्ग : बी.कॉम. -सत्र : २

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| महिना | घटक |
|---|---|
| जानेवारी. | घटक -१ - |
| | १ - आमची एक दुष्ट खोड : आळस |
| | २ - शील बनविणारे शिक्षक |
| | ३ - मनुष्याचा देव आणि विश्वाचा देव |
| | ४ - डॉ. पंजाबराव देशमुख |
| फेब्रुवारी. | ५ - नात |
| | ६ - रुपी-माझी साक्ष |
| | घटक -२ - |
| | १ - एकनाथांची भारुडे |
| | २ - दणकट दंडस्नायू जैसे |
| मार्च. | ३ - माय |
| | ४ - पुतळे |
| | ५ - उद्घोष |
| | ६ - जागर |
| एप्रिल. | घटक -३ - |
| | १ - वाकप्रचार |
| | २ - जाहिरातलेखन |
| | घटक -४ - **रोजगाराभिमुख मराठी - व्यावहारिक कौशल्ये.** |
| | १. समाज माध्यमातील शिष्टाचार |
| | २. ऑनलाईन कौशल्य – अ ) ग्राहक केंद्राशी संवाद ब) ऑनलाईन अर्ज करणे |

1988.

विनोद रामदास वंजारी

**स्वाक्षरी**

NABIRA MAHAVIDYALAYA

# नबीरा महाविद्यालय,कार्ला.
# अध्यापन आराखडा - २०२३ -२०२४

प्राध्यापकाचे नाव : विनोद रामदास वंजारी

विभाग : मराठी

विषय /पेपर : मराठी

वर्ग : बी.कॉम. – सत्र : ३

रुजू रुजू दिनांक - १ ऑगस्ट २०२३

महिना

घटक

घटक -१ - गद्य

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

सप्टेंबर .

ऑक्टोबर .

घटक -२ - पद्य

१ - संत कावियत्रींची अभंगवाणी
२ - निश्चयाचा महामेरू
३ - नववधू, प्रिया मी ...
४ - सारेच दीप कसे मंदावले आता
५ - सोनं होऊन उगाव
६ - विश्वाचे नवल

## दिवाळी : १ नोव्हेंबर ते ३१ नोव्हेंबर .

डिसेंबर .

घटक -३ - व्यावहारिक मराठी

१ - वृत्त संपादन
२ - शुद्ध शब्द

घटक -४ - रोजगाराभिमुख मराठी - व्यावहारिक कौशल्ये.

१. प्रकल्प – माहितीचे विश्लेषण ( डाटा इंटरप्रिटेषण )

1932..

अ) सर्वेक्षण ब) तक्ता विवरण क) GPS मार्गदर्शिका नकाशा अवलोकन आणि विश्लेषण

२. वाचन कौशल्य – अ ) बातमी वाचन ब) कथा वाचन

**वर्ग : बी.कॉम. - सत्र : ४**

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**महिना** **घटक**

**जानेवारी .** **घटक - १ - गद्य विभाग**

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

**फेब्रुवारी.**

५ - श्रीकृष्ण : बहुआयामी व्यक्तिमत्व
६ - यमाजीची गोष्ट

**घटक - २ - पद्य**

१ - तीन अभंग
२ - द्यावे 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 शब्दविस्ता

**घटक - ४ - रोजगाराभिमुख मराठी - व्यावहारिक कौशल्ये.**

१. PPT (पॉवर पॉइंट प्रेझेंटेशन)

२. ऑनलाईन कौशल्य – अ ) ऑनलाईन व्यवहार ब) संकेतस्थळ ( वेबसाईट ) विश्लेषण

1989..

विनोद रामदास वंजारी

**स्वाक्षरी**

# NABIRA MAHAVIDYALAYA, KATOL

## Department of philosophy

session : 2023-24

## Completion of Course syllabus

| | | | |
|---|---|---|---|
| 1. | B.A. Sem-I | 98%. | |
| 2. | B.A. Sem. II | 97%. | |
| 3. | B.A. Sem. III | 100%. | |
| 4. | B.A. Sem. IV | 100%. | |
| 5. | B.A. Sem. V | 96%. | |
| 6. | B.A. Sem VI | 96%. | |

Dr. B. P. WALONDRE
Associate Professor & Head
Dept. of Philosophy, N.M.V. KATOL

1-1-1

# TIME TABLE

Name of the Teacher : Dr. B.P. Walondre Subject Philosophy

From : 2023 To 2024

| 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 | | | |
| MON | II | III | - | - | I | | | |
| TUE | - | II | | | | | | |
| WED | - | II | - | I | - | | | |
| THU | III | II | - | I | | | | |
| FRI | - | II | I | | - | III | | |
| SAT | - | III | I | - | II | | | |

Dr. B. P. WALONDRE
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Dept. of Philosophy N.M.V. KATOL

# NABIRA MAHAVIDYALAYA, KATOL

## Department of Philosophy

Action Plan

Session : 2023-24

| Month | Sr.No | Activities |
|---|---|---|
| Aug. | 1. | A Workshop Will Be Conducted on the subject related to the syllabus. |
| Sept . | 2. | Meditation activities will be conducted to increase the understanding power of the students. |
| Oct. | 3. | A poster competition will be conducted |
| DEC. | 4. | Religious and historical places will be visited. |

Dr. B. P. WALONDRE
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Dept. of Philosophy, N.M.V., KATOL

Dr. B. P. WALONDRE
Dept. of Philosophy
N.M.V., Katol

## Department of Philosophy

Nabira Mahavidyalaya, Katol

**Teaching plan**

Session : 2023 - 24

| Month | Class | Paper | Topic |
|---|---|---|---|
| July | BA Sem.I | Ethics | भारतीय नीतिशास्त्राचे स्वरूप व त्याचा कमिक 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, पुरूषार्थ |
| | 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, कल्पनावाद |
| February | BA Sem.II | Ethics | बुद्धिवाद, शिक्षेचा सिद्धांत, |
| | BASem.IV | logic | विधान चौरस, परिवर्तन व प्रतिवर्तन |
| | BAIII | Phil | ॲरिस्टाटलची कारणता, अर्थापत्ति, अनुपलब्धि |
| March | BA Sem.II | Ethics | अभिनितिशास्त्र, उपयोजित नीतिशास्त्र |
| | BA Sem IV | logic | तर्कदोष |
| | BAIII | Phil | प्रामाण्यवाद स्वतः व परतः |

Dr. B. P. WALONDRE
Associate Professor & Head
Dept. of Philosophy, N.M.V. KATOL

# RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

(Established by Government o Central Provinces Education Department by Notification No. 813, dated 1st of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Maharashtra Act No. VI of 2017)

**(Academic Section)**

Academic Section, Rashtrasant Tukadoji Maharaj Nagpur University, Jamnalal Bajaj Administrative Building, Mahatma Jotiba Phule Educational Premises, Campus Square to Ambazari T-Point Road, Nagpur-440033

No. Acad. /Acad .Calc. /2023/ 329 Date: 25/05/2023

## NOTIFICATION

It is notified for general information of all the University conducted/ constituent/ affiliated colleges that the Academic Calendar **for the session 2023-24 will be as under:**

**ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER & ANNUAL PATTERN FOR SESSION 2023-24.**

**1. Terms & Vacation**

| | | |
|---|---|---|
| First Term (Odd semesters & Annual Pattern) | : | 16 .06.2023 to 31.10. 2023 |
| Winter Vacation | : | 01.11.2023 to 30.11.2023 |
| Second Term (Even semesters & Annual Pattern) | : | 01.12.2023 to 30.04.2024 |
| Summer Vacation | : | 02.05.2024 to 15.06.2024 |

**2. Admissions**

| | | |
|---|---|---|
| a) Last date of Admission (First term odd sem. & First Year Annual Pattern) | : | 7th August, 2023 |
| b) Last date for Admission with prior permission of the Vice-Chancellor | : | 7th September, 2023 |

**3. Last date of submission of Enrolment forms to the university** : Within fifteen days from the notified last date of Admission

**4. Examination**

**A. Winter Examinations.**

**1. Commencement of Exam.**

a) Failure Students in even semesters
b) Regular students in odd semesters
c) Failure students in Annual Pattern
: 16.10.2023

**2. Last date for receipt of exams. forms**

a) Regular students : 31.08.2023 **(for admission other than Ist year)**

b) Old Ex-Students : 31.08.2023

c) Ex-Students of immediately previous examination : Within 15 days from the date of declaration of the result of summer Exams.

**B. Summer Exams.**

**1. Commencement of Exams.**

a) Failure students of odd semester
b) Regular students of Even semester
c) Failure & Regular students of Annual Pattern
: 15.03.2024

**2. Last date for receipt of examinations forms**

| | | |
|---|---|---|
| a) Regular Students | : | 15.02.2024 |
| b) Old Ex-Students | : | 15.02.2024 |
| c) Ex-Students of immediately previous exam | : | Within 15 days from the date of declaration of the result of winter Exams. |

**5. Declaration of Results** : As per governing provisions of the Act.

**6. Convocation Winter 2022 & Summer 2023** : **December 2023**

**Special Instructions :**

1. The Principals/Heads of the institutions are authorised to ask teachers to attend duties during vacation for exam related work, if needed.
2. The Principals/Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
3. Students admitted after the last date as specified above shall not be considered for enrolment in the University and therefore, shall not be permitted to appear at the university examinations.
4. All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year.
5. Theory and Practical examinations may be held on Sunday with prior permission and intimation.
6. It is necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
7. All efforts should be made to achieve more than 180 teaching days in Annual Pattern and 90 days per Semester in Semester Pattern.
8. This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process. The last date for admissions in higher level semesters shall be 10 days after results of qualifying examinations.
9. Therefore, the last date of admissions for all courses where centralized admission process is adopted shall be notified separately.
10. The Last Date of examination forms for CAP round admission will be 15 days from the last date of admissions.
11. In case, Admissions governed by **Conditional Eligibility** the last date for submission of examinations form shall be within fifteen days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27 of 2008 and 6 Of 2010.

By Order of the Hon'ble Vice- Chancellor

(Dr. Raju Hiwase)
Registrar

**Copy forwarded for information and necessary action to :-**

1. P.A. to Hon'ble Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
2. P.A. to Hon'ble Pro-Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
3. P.A. to Registrar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. The Principals of all Colleges / Head of the Post- Graduate Teaching Departments of the Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
5. All Officers of the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
6. The Registrar of All Universities in the Maharashtra State.
7. Dr. Prashant Maheswary, Dean, Faculty of Science & Technology and Director, Multi-Facility Computer Centre, RTM, Nagpur University, Nagpur.
8. The Editor, All local News Papers. They are requested to kindly publish the above Notification in their esteemed News Paper as a News Item.

(Dr.Rajendra Utkhede)
Deputy Registrar (Acad.)

# Nabira Mahavidyalaya , Katol, Dist. Nagpur

## Time Table for the faculty of Humanities 2023 - 24

| Time → Day ↓ | Class | 1<br>8:00 – 8:48 | 2<br>8:48 -9:36 | 9:36 – 9:40 | 3<br>9:40 -10:28 | 4<br>10:28 – 11:16 | 11:16 – 11:20 | 5<br>11:20 – 12:08 | 6<br>12:08 – 12:56 |
|---|---|---|---|---|---|---|---|---|---|
| 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) | | ELT (MDL) / MLT (BSK) | ENG (PVS) | | MAR (RRP) | |
| | B. A. II A | PHIL/ECO(BPW/GGN) | POL /H. ECO (HYK/DDG) | | ENG (PVS) | ELT(YPB)/ MLT(RRP) | | POL / H. ECO (HYK / DDG) | ENG (TUT) |
| | B. A. III A | MAR (BSK) | PHIL/ECO(BPW/GGN) | R | | | R | | |
| TUE | B.A. I A | ELT (PVS) | ENG (MYR) | | HIS (RRD) | POL / H. ECO (HYK / DDG) | | PHIL / ECO (BPW/GGN) | ELT (PVS) |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | ELT (MDL) / MLT (BSK) | ENG (PVS) | | MAR (RRP) | |
| | B. A. II A | HIS (RRD) | POL /H. ECO (HYK/DDG) | E | ENG (PVS) | ELT(YPB)/ MLT(RRP) | E | MAR (BSK) | |
| | B. A. III A | POL/H. ECO (HYK/DDG) | PHIL/ECO (BPW/GGN) | | | | | | |
| WED | B.A. I A | ELT (PVS) | ENG (MYR) | | POL / H. ECO (HYK / DDG) | HIS (RRD) | | MAR (BSK) | H.ECO Practical |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | ELT (MDL) / MLT (BSK) | ENG (PVS) | | ENG (CSR) | |
| | B. A. II A | HIS (RRD) | PHIL/ECO(BPW/GGN) | C | ENG (PVS) | POL /H. ECO (HYK/DDG) | C | ELT (MDL) | |
| | B. A. III A | PHIL/ECO(BPW/GGN) | HIS (RRD) | | | | | ENG (TUT) | H.ECO Practical |
| THU | B.A. I A | ELT (PVS) | ENG (MYR) | | HIS (RRD) | PHIL / ECO (BPW/GGN) | | POL (HYK) | |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | ELT (MDL) / MLT (BSK) | POL /H. ECO (HYK/DDG) | | ENG (CSR) | H.ECO Practical |
| | B. A. II A | HIS (RRD) | PHIL/ECO (BPW/GGN) | E | ENG (PVS) | ELT(YPB)/ MLT(RRP) | E | MAR (RRP) | |
| | B. A. III A | PHIL/ECO(BPW/GGN) | HIS (RRD) | | | | | MAR (BSK) | |
| FRI | B.A. I A | ELT (PVS) | ENG (MYR) | | PHIL/ECO (BPW/GGN) | MAR (BSK) | | HIS (RRD) | |
| | B. A. I B | MLT (RRP) | MAR (BSK) | | | ENG (CSR) | | | |
| | B. A. II A | POL (HYK) | PHIL/ECO(BPW/GGN) | S | ELT (MDL) / MLT (BSK) | HIS (RRD) | S | ENG (TUT) | H.ECO Practical |
| | B. A. III A | HIS (RRD) | HIS (RRD) | | POL /H. ECO (HYK/DDG) | ELT(YPB)/ MLT(RRP) | | MAR (BSK) | ENG (TUT) |
| SAT | B.A. I A | ENG (MYR) | POL /H. ECO (HYK/DDG) | | PHIL/ECO (BPW/GGN) | MAR (BSK) | | MAR (BSK) | |
| | B. A. I B | ENG (CSR) | | | | ENG (CSR) | | ENG (TUT) | |
| | B. A. II A | MAR (RRP) | ENG (PVS) | | POL /H. ECO (HYK/DDG) | HIS (RRD) | | ECO / PHIL | |
| | B. A. III A | HIS (RRD) | PHIL/ECO (BPW/GGN) | | ELT(YPB)/ MLT(RRP) | ELT (YPB) | | POL (HYK) | H.ECO Practical |

Coordinator
Time Table Committee

Principal
N. M. V. Katol

# NABIRA MAHAVIDYALAYA, KATOL, DIST NAGPUR

## M.A. HISTORY PART I & II

## TIME TABLE 2023-24 (NEP 2020)

## M.A. PART I

| Day | I<br>08.00 – 09.00 | II<br>09.00 – 10.00 | 10.00 – 10.15 | III<br>10.15 – 11.15 | IV<br>11.15 – 12.15 |
|---|---|---|---|---|---|
| Monday | SBB – MI - 1 | MRD - HIS | BREAK | SVK – AI - 1 | ANB - RM |
| Tuesday | SBB – MI - 1 | MRD - HIS | | SVK – AI - 1 | ANB - RM |
| Wednesday | SBB – MI - 1 | MRD - HIS | | ANB - CHM | SBB – RM |
| Thursday | SBB – MI - 1 | MRD - HIS | | ANB - CHM | SBB – RM |
| Friday | SBB – AS | SVK – AI - 1 | | ANB - CHM | - |
| Saturday | SBB – AS | SVK – AI - 1 | | ANB - CHM | - |

## M.A. PART II

| Day | I<br>08.00 – 09.00 | II<br>09.00 – 10.00 | 10.00 – 10.15 | III<br>10.15 – 11.15 | IV<br>11.15 – 12.15 |
|---|---|---|---|---|---|
| Monday | MRD – HMV | SBB – EHI | BREAK | ANB – MH - 1 | SBB – SKILL |
| Tuesday | MRD – HMV | SBB – EHI | | ANB – MH - 1 | SBB - SKILL |
| Wednesday | MRD – HMV | SBB – EHI | | SVK - INM | - |
| Thursday | MRD – HMV | SBB – EHI | | SVK - INM | - |
| Friday | ANB – MH - 1 | SBB – SKILL | | SVK - INM | - |
| Saturday | ANB – MH - 1 | SBB – SKILL | | SVK - INM | - |

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

NABIRA MAHAVIDYALAYA, KATOL
M.A. HISTORY PART -I & II
TIME TABLE - 2023-24 (NEP- 2020)

## M.A. SEM -II

| Day | I 8.00-9.00 | II 9.00-10.00 | 10.00-10.15 | III 10.15-11.15 | IV 11.15-12.15 |
|---|---|---|---|---|---|
| Monday | SBB-IUCR | MRD-TTH | B | SVK-AI -II | SVK-PF |
| Tuesday | SBB- IUCR | MRD- TTH | R | SVK-AI -II | SVK-PF |
| Wednesday | SBB- IUCR | MRD- TTH | E | ANB-MI-II | SBB-PF |
| Tuesday | SBB- IUCR | MRD- TTH | A | ANB- MI-II | SBB-PF |
| Friday | SBB--MU | SVK-AI -II | K | ANB- MI-II | -- |
| Saturday | SBB--MU | SVK-AI- II | | ANB- MI-II | -- |

## M.A. SEM -IV

| Day | I 8.00-9.00 | II 9.00-10.00 | 10.00-10.15 | III 10.15-11.15 | IV 11.15-12.15 |
|---|---|---|---|---|---|
| Monday | MRD- MV | SBB-EHI | B | ANB-MH-II | SBB-SKILL |
| Tuesday | MRD- MV | SBB-EHI | R | ANB-MH-II | SBB-SKILL |
| Wednesday | MRD- MV | SBB-EHI | E | SVK- INDI | -- |
| Tuesday | MRD- MV | SBB-EHI | A | SVK- INDI | -- |
| Friday | ANB-MH-II | SBB-SKILL | K | SVK- INDI | -- |
| Saturday | ANB-MH-II | SBB-SKILL | | SVK- INDI | -- |

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

1) Mr. S. B. Behniya → 16
2) Mrs. M. R. Dodke → 08
3) Mr. S. V. Kalambe → 10
4) Mr. A. N. Bhakte → 08
42 periods.

# NABIRA MAHAVIDYALAYA, KATOL

DEPARTMENT OF HISTORY (U.G)

**SESSION 2023-2024**

Month Wise Action Plan

| Month | | Activity/Events |
|---|---|---|
| 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 | - | Chhatrapati Shivaji Maharaj Birth Ceremony |
| March | - | Competitive Exam Guidance, Students Seminar ( Assessment ) Mentor Students. |
| April | - | Dr. Babasaheb Ambedkar Birth Ceremony, Test Paper & Farewell program. |

Dr. R.R. Dhote
Department of History (HOD)
Nabira Mahavidyalaya, Katol

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL
22/06/23

# NABIRA MAHAVIDYALAYA, KATOL

DEPARTMENT OF HISTORY (P.G)

**SESSION 2023-2024**

Month Wise Action Plan

| **Month** | | **Activity/Events** |
|---|---|---|
| July & August | - | Admission for M.A. I and III Semester. |
| September | - | Welcome program M.A.I and Students Motivation |
| | | 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 | - | Chhatrapati 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. |

Dr. R.R. Dhote
Department of History (HOD)
Nabira Mahavidyalaya, Katol

DR. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

NABIRA MAHAVIDYALAYA KATOL DIST. NAGPUR

Department of History (P.G.) session - 2023-2024 (M.A. II & IV Sem.)

| Name of the Teacher | Name of the Department | UG / P.G | Papers / Unit | % of syllabus completed. | Approximate timeline for syllabus completion | Signature |
|---|---|---|---|---|---|---|
| 1) S.B. Behniya | M.A. HISTORY | P.G | M.A. I<br>1) papes. 3 - IUCR<br>2) paper. 4 - Moug.<br>M.A. II<br>3) Paper. 3 - EHI | 95%<br>90%<br>95% | 08/05/2024 | S.B.Behniya |
| 2) M.R. Dodke. | M.A. History | P.G | M.A. I<br>1) papes. ④ TTH<br>M.A. II<br>2) papes. ④ MV | 95%<br>85% | 08/05/2024 | |
| 3) S.V. Kalambe | M.A. History | P.G. | M.A. I<br>1) Papes ① AI - II<br>M.A. II<br>2) Papes. 2 - IND | 90%<br>90% | 08/05/2024 | |
| 4) A.N Bhakte | M.A. History | P.G | M.A. I<br>1) papes. ② M.I - II<br>M.A. II<br>2) papes. ① MH. II | 80%<br>85% | 08/05/2024 | |
| 5) S.B. Behniya & S.V. kalambe | M.A. History | P.G | M.A. I<br>Field project | 100 % | — | S.B.Behniya<br> |

DATE:- 29/04/2024

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

NABIRA MAHAVIDYALAYA, KATOL

*PROFORMA OF TEACHING PLAN* - 2023-2024

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 - 1525)

| Month | Topics to be covered |
|---|---|
| June | * The Harappan civilization<br>Vedic Age |
| July | * Jainism, Buddhism — origion, Tenets |
| August | * Chandragupta Maurya - Administration<br>Ashoka - His conquests, Dhamma,<br>The Gupta Dynasty. |
| September | * Chandragupta I, Samudragupta.<br>Chandragupta Vikramaditya.<br>Vakataks, Iltumush. |
| October | * Balban, A. Khilji Mohmmad Tughlaq<br>Feroz Tughaluq, Bhakti Movement —<br>Sufi culture, Architecture - Sultanate |
| November | * |

History of India from 1526 - 1761

B.A II sem December * Babur, Shershah - Administration
Akbar - Religious Policy, Mansabdari system.

January * Shahajahan, Aurangjeb - 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 battale of Panipat
Advent of European Trading companies.

Signature
Dr. R.R. Dhote

NABIRA MAHAVIDYALAYA, KATOL

*PROFORMA OF TEACHING PLAN – [redacted] 2023-24*

To be submitted to the Teacher Appraisal Committee

Name of the Teacher : Dr. R. R. Dhole  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. Rayatwari, Mahalwasi system |
| August | * Subsidiary Alliance of Lord Wellesley Lord Bentinck - Internal Reform Lord Dalhousie - Doctrine of Lapse |
| September | * 1857 Revolt - Causes & Effects Brahmo Samaj, Prarthna 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, Mountbatan Plan, Indian Independence Act - |

Signature

Dr. R. R. Dhole

NABIRA MAHAVIDYALAYA, KATOL

*PROFORMA OF TEACHING PLAN* – ~~2022-23~~ 2023-24

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 Th. sem, B.A 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 - Bismarck and Kaiser William-II, First world war, Treaty of Versailles. |
| September | • League of Nations - structure |
| October | • League of Nations - Achievements and failures<br>• Russian Revolution - 1917 |
| November | • — |

B.A VI th sem — Modern World - 1920-1960

| | |
|---|---|
| December | • Soviet Russia - Five year Plans<br>Hitler - Foreign Policy, Mussolini Foreign Policy. |
| January | • Sino-Japanese war 1937-39<br>Causes of The second world war<br>U.N.O - Structure & Achievement |
| February | • Cold war, NATO, SEATO, Warsa Paat, Decolonisation of Asia |
| March | • Establishment of Israel.<br>Non-Alignment Policy<br>Suez crisis |

Signature

Dr. R.R. Dhote

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2023-2024
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Avinash N. Bhakre
Subject/Paper : Research Methodology. Dept : History
Class : M.A.I

| Months | Topic to be covered |
|---|---|
| August : | M. A. 1st Admision |
| September : | Unit -I- History: ⓐ Nature scope and value ⓑ- Social Necessity of History |
| October : | ⓑ Mening of Research: ① Defination, ② objectives. ③ Research Nature, Limitations. |
| November : | ④ Types of research; Descriptive; Analytical. ⑤ Fundamentel; ⑥ Qualitative and Quantitative ⑦ Conceptual Empirial etc. Unit -II- |
| December : | * Primary operation – ① choise of subject ② Reserch plan, ③ working hypothesis. * method of data collection ④ Primary secondary sorce. Diwali Vacation - Unit III ⓐ synthetic, o- |
| January : | ① causation grenralization. * concluding. o. Report writing Bibliography: Footnote, Endnotes. ② style – MLA APA. Plagiarism. |
| February : | Unit IV] - challenges. of objectivity – History as Science/scientific study uses. of History Ethics Research. |
| March : | |
| April : | |
| May : | |
| June : | |
| July : | |

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

Avinash N. Bhakre
Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2023-2024
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Avinash N. Bhakte Dept : History
Subject/Paper : Cultural History of Maharashtra Class : M.A.I

| Months | Topic to be covered |
|---|---|
| August | : M.A. 1st Admission |
| September | : Unit-I Maharashtra as a cultural region<br>(a) physical and geographical Features<br>(b) origion of Maratha people & Language. |
| October | : (c) Nomenclature of Maharashtra.<br>Unit-II - Movements and cults: philosophy and Teaching - (a) Nath (b) MahaNubhav (c) Varkari |
| November | : (d) Ramdasi (e) Datta (f) Sufi, shakt. |
| December | : =Diwali - Vacation →<br>Unit-3 Literature - (a) Bhakti (b) pandit<br>(c) shahir, Falk. |
| January | : Unit-iv :⇒ makers of modern Maharashtra<br>(a) Balshastri Jambhekar (b) Gopal Ganesh Agarkar<br>(c) savitribai Fule. |
| February | : IInd-Sem- subject - medieval India (1206-1757)<br>Unit-1- socity - (a) social stratification - |
| March | : (a) Hindus / muslims Nobility and commoners.<br>(b) position of Woman; position of Hindus |
| April | : (c) Food and dress; Amusement.<br>Unit-II Arts & Architecture:- During sultanate period - (a) Delhi; Gujrati; Deccen, malva Bengal |
| May | : (b) During mughal period - Fatehpur-sikri, Agra red<br>(c) paintings - mughal; Rajasthani, Pahari |
| June | : Unit-III - Litrature (a) persian (b) sanskrit<br>(c) Regional Languages IV - Economy and trade<br>(a) Agriculture and Industries, Inland and Foreign<br>trade - (c) Urbanization |
| Julty | : |

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

Avinash N. Bhakte
Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2023-2024
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Avinash N. Bhakte  Dept : History
Subject/Paper - 1 : History of Maratha. (1630-1707)  Class : M.A III

| Months | Topic to be covered |
|---|---|
| August | : M.A. 1st Admission |
| September | : Unit-I - @ Sources of maratha. History @ Bakhars. (b) Adnyapatre, shakavali (b) Rise of maratha. (c) concept of Maharashtra Dharma. |
| October | : Unit II @ shivaji's Relations with Adilshahi (b) shivaji's Relations with the mughals. (c) significance of shivaji's coronation |
| November | : Unit III @ sambhaji Relation with the portygues. (b) sambhaji's Relations with siddi— |
| December | : Diwali vacation — sambhaji relation with mugals. |
| January | : Unit IV @ The marath war of Indipende (b) civil, judicial administration (c) military and Naval Administration. |
| February | : IV semister : History of maratha. II (1707-1818) |
| March | : Unit-I @ Accession of shahu as chhatrapati (b) Accession of sanads by Balaji vishwan (c) peshwa Bajirao-I - Expansion of maratha in North India. |
| April | : Unit-II - @ Third Battle of Panipat (b) peshwa madhavrao (c) Anglo-marathawars. @ Downfall of maratha power. (Unit-3) - Nature of maratha conq (b) civil and judicial Administration (c) military Admini |
| May | : Unit-(4) Trade and commerce (b) social and economic conditions. (c) Art and Ag Architecture |
| June | : |
| July | : |

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

Avinash N. Bhakte
Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2023-2024
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Shrichoran B. Behniye Dept : History
Subject/Paper : 3) Medieval India. I (1206-1757) Class : D.A. I (His.)
3) India Under the Com-Rule (1757-1857)

| Months | Topic to be covered |
|---|---|
| August | D.A. Ist Admission- → (Nep-2020 Syllabus) |
| | Ist sem. Paper. 3) Medieval India. I (1206-1757) |
| September | Unit 1- Sources: |
| | a) Literary Sources - Tarikh-i-Hind, Fatwa-i-Jahangiri |
| October | b) Baburnama; Ain-i-Akbari of Abul Fazal. |
| | c) Travelers Account - Ibn Bhatuta, Niccolao Manucci. |
| November | Unit 2 - Delhi Sultanate :- a) Iltutmish, Qutub-ud-Aibak. Administration, Theory of kingship. b) Balban & Razia - Theory of kinship; The khiljis - Market regulations. c) The Tughlaqs - Mahammud Bin; Firuz shah; Downfall of sultanate. |
| December | →Diwali ——Vacation)→ |
| | Unit 3 - The Mughlas: a) Babar; Humayun - contest with Afgans |
| January | b) Akbar - Religious policy, Din-i-Illahi, Jahangiri - Mansab dari. |
| | c) Shahajahan - central Asian policy; Aurangzeb; Deccan policy; Religious policy, causes of Decline. Unit No 4) Administrative structure |
| February | a) Islamic Theory of state and its application in India b) The Adminis. Strative structure of sultanate - privincial, military, Revenue. c) The Administrative structure of Mughals - privincial, Civil, Reven. |
| | ★★★ |
| | IInd sem. paper. paper. 3) IND. UNDER COM. RULE (1757-1857) |
| March | Unit-I - a) India in the mid-18 century. b) Battles of Plassy and Buxar. c) Anglo-Sikh wars, Anglo-Mysore war. |
| | Unit II - a) subsidiary Alliance system. b) Policy of Annexation of Indian states. c) Doctrine of Lapse. |
| April | Unit-III - a) Regulating Act of 1773 b) Pitts India Act of 1784 c) Charter Acts. 1813, 1833, 1853. |
| May | Unit-IV - a) Introduction of western Education; Development of press in India. b) Raja Ram Mohan Roy, Brahmo samaj |
| | c) Revolt of 1857 - Causes and Nature. |
| June | |
| July | — |

★★★

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

S.B.Behniye
(Prof. S.B. Behniye)
Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2023-2024
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Shiocharan B. Behnije
Subject/Paper : 4) Archival studies
4) Museology.
Dept : History
Class : M.A.I (His.)

Months — Topic to be covered

August : ← Admission → M.A. Ist →
(NEP- 2020 syllabus)

September : M.A. Ist sem. paper IV Archival studies
Unit I – a) concepts of Archives; Definition - Archives and Records.
b) History of Archives in India.
c) Types of Archives - Types of Records.
d) Uses of archives.

October :

November : → Diwali Vacation →

December : Unit-III a) Best Museums in India.
b) Indian Historical Record Commission - the National Archives, Delhi.
c) Maharashtra state Archives – Mumbai, Nagpur
d) private Archives → Itihas sanshodhan mandal Dhule.
* * * *

January :

February : M.A. IInd sem. paper IV Museology

March : Unit I. a) Concepts and History of Museums in India.
b) Types of Museums, their scope and functions.
c) Best Museums in India.
d) Heritage education; Museum and accesibility.

April :

Unit II :- Collection, Documentation and Exhibition planning.
a) collection: field exploration, purches, gifts and bequests, loans and deposits, exchanges, treasure trove, confiscation and others.
b) Documentation: accessioning, indexing, cataloguing, digital, documentation and deaccessioning.
c) Types of exhibits, target audience, concept development, storyline, designing and layout of exhibits gallery development, space, showcases and structural installations, colour scheme. Lighting, lables and scripts, evaluation.
* * * *

May :

June :

Jully :

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

(Mr. S. B. Behnije)
Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2023-2024
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Shivcharan B. Behniye Dept : History
Subject/Paper : 3) Economic History of India Class : Gl. A. II His.
3) Economic History of India.

| Months | Topic to be covered |
|---|---|
| August : | ← Admission – Gl. A. IIIrd sem. → |
| September : | Gl. A. IInd IIIrd sem. (3) Economic History of India (1757-1857) |
| October : | Unit 1 :- a) Nature of Rural & Urban Economy in mid-18 century. b) European Economic Interest in India. c) Commercial policy of East Ind. Com. |
| November : | Unit. 2 :- a) Land Revenue settlement :- Parmanent, settlement; Ryotwari and Mahalwari - b) Rural Indebtedness - Artisans and Industrial |
| December : | ← Diwali Vacation → Production |
| January : | Unit. 3 :- a) Policy of De Industrialisation, effects on Indian Industry. b) Introduction of Railways and its impact on Indian Economy. c) Changing Nature of Trade. |
| February : | Unit. 4 :- a) Foreign capital Investment in India. b) Nature and forms of resistance. c) pre-1857 peasant, tribal revolts. ★ ★ ★ |
| March : | Gl. A. IVth sem. (3) Eco. His. of Ind. (1757-1857) |
| April : | Unit. 1 :- a) Rise of Economic Nationalism. b) Agricultural policy; Famine policy. c) Growth of Industries - cotton, Jute, Iron, steel. |
| May : | Unit. 2 :- a) Rise of Industrial Labour. b) Trade Union Movement. c) Labour Legislations. |
| June : | Unit. 3 :- a) Nature of External Trade b) Trad Legislations. c) Drain of wealth - Dadabhai Naoroji |
| | Unit. 4 :- a) Main trends in the movement of prices. b) population Growth - pre and post. c) Movement of National income. after. 1858. |
| July : | ★ ★ ★ ★ |

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

(Mr. S. B. Behniye)
Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2023-2024
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Mangesh R. Dodke  Dept : History
Subject/Paper : 1) Historiography  Class : M.A.I (His)
Trends and Theories of History

Months | Topic to be covered

August : M.A. I[st] Admission ★ INTRODUCTION ★
UNIT-1 A) Meaning of Historiography
B) Allied and Auxiliary sciences of History
September : C) Philosophies of History and Historicism
UNIT-2 Western Historiography
October A) Greco-Roman :- Herodotus, Thucydides
B) Modern Western Historians : Voltaire Leopold Von Ranke, Hegel
C) Imperialists :- James Mill, Vincent Arthur smith
November :
— DIWALI Vacation —
UNIT-3. Indian Historiography
December A) Ancient Indian - Banabhatta - Medieval Arab Historian - Ibn Kaldun
B) Medieval India - Kalhana, Alberuni, Berani
C) Modern Indian Historians: K.P. Jayaswal, Jadunath Sarkar, D.D. Kosambi
January UNIT 4. Approaches to History
A) Marxists: E.P. Thompson, E.H. Carr
B) Annals :- Marc Bloch, Ferdinand Braudel, Subaltern :- Ranjit Guha
February C) Cambridge Historiography and their Interpretation of Indian History
II[nd] SEM TRENDS AND THEORIES OF HISTORY
UNIT-1 Modern Approaches of History
March A) Positivism
B) Annals
C) Post-Modernism
April Unit-2 - Trends During Colonial Periods in India
A) Orientalist Historiography
B) Imperialist Historiography
C) Nationalist Historiography
Unit-3 Trends in Post-Colonial Period
A) Marxist Historiography in India
MAY B) Dalit Historiography
C) Tribal Historiography
Unit-4 Recent Trends in Historiography
A) Ecological Historiography - Ramchandra Guha & Madhav Gadgil
B) 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
म. प्र. आर. ढोते

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2023-2024
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Mangesh R. Dodke
Subject/Paper : History of Medieval Vidarbha (1200-1857) History of Modern Vidarbha 1854-1960
Dept : History
Class : M.A. II (HIS)

Months — Topic to be covered

August : — Admission —
Unit-1 A) Emergence of Gond Power
B) Gond Dynasty of Chandrapur- Bhimballalshah, Surajballalshah
September : C) Gond Dynasty of Devgad- Jatba, Bakht Buland
Unit-2 A) Establishment of Bhosle Rule- Raghuji I
October : B) Raghuji - Bengal Expeditions
C) Janoji - Relations with Peshwa, Nizam
November : —— DIWALI VACATION ——
UNIT-3 A) Mudhoji - Relations with Peshwa, Nizam and the English
B) Raghuji II - Relations with the English
December C) Appasaheb Bhosle - War with the English
Unit-4 A) Accession of Raghuji III
January : B) Annexation of Nagpur
C) Nagpur during the Revolt of 1857
February : History of Modern Vidarbha
Unit-1 A) Formation and Administration of Central Provinces and Berar
B) Sarvajanik Sabha, Gorakshan sabha, Educational Institutions
March C) Congress Sessions 1891, 1897, 1920
Unit-2 A) Non-Cooperation Movement, Civil Disobedience Movement
April B) Quit India Movement- Ashti, Chimur, Yawali
C) First Congress Ministry Under Dr. N. B. Khare
Unit-3 A) Separate Vidarbha Movement
May B) Dalit Movement
C) Samyukta Maharashtra Movement
Unit-4 A) Social Welfare Activities - Missionary work, Matrusevasangh, Anandvan,
June B) Rashtriya Swayam Sevak Sangh Gurudeva seva mandal
C) Dhamma Chakra Pravartan
July :

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

Signature
प्र. प्रा. डॉ. ढोके

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2023-2024
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Mr. Shishir Kalambe  Dept : History
Subject/Paper : Ancient India - I & II  Class : I-M.A
Paper-02

| Months | Topic to be covered |
|---|---|
| **Semester - I** | |
| August : | — Admission — |
| **Unit I** | (A) Meaning of Sanskrit & Pali Sources. |
| | (B) What is the sources of Sangam Lit. in History. |
| September : | (C) Foreign Accounts - fa-hien & Xuanzang & his |
| **Unit-2** | (A) Meaning of valley culture & Expansion. |
| | (B) Explain the Vedic Society. |
| October | (C) Explain & Meaning of sixteen Mahajanpadas. |
| **Unit-3** | (A) Explain the Administration of Maurya & Guptas. |
| | (B) Information of Harshavardhan (C) His policy. |
| November | Vaccation Period Dipawali |
| December | (A) Rise of Gurjar Pratiharas and his power. |
| **Unit-4** | (B) Rise of Palas and his power. |
| | (C) Rise of cholas and his power. |
| **Semester II** January | (D) Rise of Rajput and his Power. |
| **Unit 1** | (A) What is the Varna & his caste system. |
| | (B) Explain the women and Surdas Position |
| February | (C) Explain the ashram vyavastha and sankar. |
| **Unit-2** | (A) Explain the temple - Nagara & Dravida style. |
| | (B) meaning of Gandhara, Mathura, & Amaravati |
| March | (C) meaning and Explain of Paintings. school. |
| **Unit-3** | (A) Explain the Nalanda vidyapith. |
| April | (B) meaning of the Sanskrit & Sangam Lit. |
| | (C) Meaning of the Pali & Prakrit Marathi |
| **Unit-4** | (A) Explain the Planning of Land Agriculture. |
| ~~May~~ | (B) Meaning of Trade & Guide systems. (C) |
| June : | |
| July : | |

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

(Shishir. V. Kalambe)
Signature

NABIRA MAHAVIDYALAYA, KATOL
PROFORMA OF TEACHING PLAN – 2023-2024
To be submitted to the Teacher Appraisal Committee.

Name of the Teacher : Mr. Shishir Kalambe
Subject/Paper III – : Indian National Movement Dept : History.
IV – Independent India | 1885-1947 Class : M.A. II

Semester-III

| Months | 1948-2010 Topic to be covered |
|---|---|
| August<br>Unit-1 | (a) Explain the Ideology of Congress.<br>(b) Explain the partition of west Bengal<br>(c) Explain the Non-cooperation & civil Movement |
| September<br>Unit-2 | (a) Explain the Hindu & Muslim communalism.<br>(b) Explain the Revolutionary Movements. |
| October<br>Unit-3 | (c) Meaning of Government of India Act-1935<br>(a) Explain the Cripps & quit India movement |
| November | (b) Explain the cabinet & Mountbatten mission.<br>Vaccition of Diparoli |
| December<br>Unit-4 | * Explain the Act of 1947<br>(a) Explain and meaning of Deep. Edu.<br>(b) Explain Parasaute movement & working class Mov. |

Semester IV

| January<br>Unit-1 | (a) Explain the Indian princely state Role of Sardar patel<br>(b) meaning of Indian Constitution. |
|---|---|
| February<br>Unit-2 | (c) Explain the feature of Indian Constitution.<br>(a) Explain the planned of Economy.<br>(b) Explain the Agriculture policy. |
| March<br>Unit-3 | (c) Explain Industrial policy.<br>(a) Explain the non-Alignment policy (c)<br>(b) Relation with USSR. & China & U.S.A, Pakistan |
| April<br>Unit-4 | (a) Concept of congress & BJP Party.<br>(b) concepts of Assam Ganparishad & Shivsena.<br>(c) concepts of DMK & Khalistan Movement. |
| June | : |
| July | : |

Dr. R. R. DHOTE
H.O.D. Department of History
Nabira Mahavidyalaya, KATOL

(Shishir. V. Kalambe)
Signature

# NABIRA MAHAVIDYALAYA, KATOL
## DEPARTMENT OF HOME-ECONOMICS
## ACTION PLAN
### SESSION- 2023-2024

AIMS- *Organizing Curriculam and Skill based programs for students pursuing Home-Economics.*

July2023- *Conducting Rakhi making workshop.*

*August 2023- Various programs/ health based lectures on Breastfeeding week.*

*September 2023- Various programs/ lectures based on Millets ( whole grains ) on the occasion of National Nutrition Week/ Month.*

*Octomber 2023-Lecture on World Food Day.*

*November 2023- winter vacation*

*December 2023- Workshop on Making Jewelary for Makar Sankranti.*

*January 2024- Providing training in making various items e.g ( Bags, purses, dresses sewing ) under skill employment program for self employment.*

*February 2024- Cooking, Flower, Greeting card, Envelop making competition.*

*March 2024- Lecture on World Consumer Day.*

April *2024- Syllabus based Lectures.*

*Visiting various exhibitions, organizing trips, taking component tests, preparing homework, organizing fun & food fairs etc.*

डॉ. दमयंती घागरगुंडे
गृह - अर्थशास्त्र
विभाग प्रमुख
नबीरा महाविद्यालय, काटोल

# DEPARTMENT OF HOME-ECONOMICS

## NABIRA MAHAVIDYALAYA KATOL

## REPORT

### COMPLETION OF SYLLABUS

### SESSION 2023-24

| 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-24/04/2024

डॉ. दमयंती घागरगुंडे
गृह - अर्थशास्त्र
विभाग प्रमुख
नबीरा महाविद्यालय, काटोल

Teacher wise Time-Table

Session-2023-24

Name- Dr. D. D. Ghagargunde

Subject- 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 | 12.56-1.00 |
| Mon | ----- | II | --- | I | III | PRA | PRA |
| Tue | III | II | -- | I | --- | PRA | PRA |
| Wed | ---- | ---- | I | III | --- | PRA | PRA |
| Thu | ---- | ---- | ---- | II | ----- | PRA | PRA |
| Fri | ---- | ---- | III | ---- | ---- | PRA | PRA |
| Sat | ---- | I | II | ----- | ------ | PRA | PRA |

**PERIODS= THEORY ( 12 ), PRACTICAL ( 12 ) = TOTAL 24**

Signature of Teacher

Dr .D.D. Ghagargunde

Head deptt. Of Home-Economics

Nabira Mahavidyalaya, Katol

**NABIRA MAHAVIDYALAYA KATOL**

PROFARMA OF TEACHING PLAN (2023-24)

Name Of the Teacher : **Prof. Dr. Damyanti D. Ghagargunde** Dept.: **Home-Economics**

| Month | Class | Subject Paper | Topics to be covered |
|---|---|---|---|
| August 01/08/2023 17/08/2023 | B.A. Sem. I<br>B.A. Sem. V<br>B. A. Sem. II | Family Resource Management. Child – Development<br>Nutrition and Dietetics | **Unit I:a)**Introduction to Home-Economics<br>**b)**Branches of Home-Economics<br>**Unit I:a)** Meaning, definition, importance and scope of child-development.<br>**b)**Field of Child-Development<br>**Unit I a)**Introduction of Dietetics<br>**b) Macronutrients- protein , fat, carbohydrates** |
| September | B.A. Sem. I | F R M | **Unit II:** a)Family Resource Management<br>b) Decision Making<br>**Unit III:a)** Fibre |
| | B.A. Sem. III | Nutrition & Dietetics | **Unit II:a)** Micro Nutrients<br>b) Vitamins |
| | B.A. Sem. V | Child-Development | **Unit II:Genetic Inheritance-Prenatal development** |
| October | B.A Sem. I | F R M | **Unit II: a)Family Resource Management**<br>**b)Decision Making.** |
| | B.A. Sem. III | Nutrition & Dietetics | **Unit III: b) Energy, Antioxidant**<br>**Unit IV: Basic Food Groups** |
| | B.A. V | Child-Development | **Unit IV: Immunization and its Importance** |
| November Diwali Vaccation 01/11/23 To 30/11/23 | | | |
| December 2023 | B.A. Sem. II | F R M | **Unit I:** |
| | B.A. Sem. IV | Food & Nutrition | **Unit I:** |
| | B.A. VI | Child-Development | **Unit I:** |
| January 2024 | 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<br>b) Nutrition through Life-Cycle |
| | B.A. VI | Child-Development | **Unit I:** Early Childhood |
| February 2024 | 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 2024 | B.A. Sem. II | F R M | **Unit II: a)**Work-Simplification<br>b)Colour. |
| | B.A. Sem. IV | Food & Nutrition | **Unit III:** Food Spoilage, Food Poisoning. |
| | B.A. Sem.VI | Child-Development | **Unit III:** Social Developments. |
| April 2024 | B.A. Sem. II | F R M | **Unit III: Consumer Education** |
| | B.A Sem. IV | Food & Nutrition | **Unit III: Food Preservation, Food Adultration.** |
| | B.A. Sem.VI | Child-Development | **Unit IV:** Childhood Behavioural Problems. |
| May 2024 | B. A. Sem. II | F RM | **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~~ 2023-24

## 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 Lucture 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

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2024/12/03 15:05

# NABIRA MAHAVIDYALAYA, KATOL

## Department of Economics Session 2023-24

### Time table

| Time / Day | 1<br>8.00 to 8.48 | 2<br>8.48 to 9.36 | Break<br>9.36 to 9.40 | 3<br>9.40 to 10.28 | 4<br>10.28 to 11.16 | Break<br>11.16 to 11.20 | 5<br>11.20 to 12.08 | 6<br>12.08 to 12.56 |
|---|---|---|---|---|---|---|---|---|
| Monday | BA. II | BA. III | R E C E S S | | | R E C E S S | BA. I | |
| Tuesday | | BA. III | | | | | BA. I | |
| Wednesday | BA. III | BA. II | | | | | BA. I | |
| Thursday | BA. III | BA. II | | | BA. I | | | |
| Friday | | BA. II | | BA. I | | | | |
| Saturday | | BA. III | | BA. I | | | BA. II | |

Head Dept of Economics

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# Nabira Mahavidyalaya, Katol

**Teaching Plan 2023-2024**

**Name of the Teacher :-** Dr. G. G. Nehare

**Department :** Economics

**Subject/Paper.....** Economics ..... **Class** B.A.I

| MONTHS | TOPIC TO BE COVERED |
|---|---|
| August | Basic economics, Positive & Normative, Inductive & Deductive method, Micro & Macro economics |
| September | Demand theory, Giffen goods, Elasticity of Demand, types of Elasticity, Market, Supply |
| October | theory, Utility, Law of Diminishing Marginal Utility, equi marginal theory, Budget line |
| November | Indifference curve, Consume equilibrium Production function, Law of Return to |
| December | Scale, Law Variable theory Iso quant curve economies of scale. |
| January | Macro economics, circular flow economic activity, two three and four sector model, |
| February | National Income, GNP, GPP, NPP, Per Capital income, Money functions of money |
| March | Inflation, Deflation, Disinflation, and Reflation, Monetary Policy, Fiscal Policy |
| April | Say Law market, Consumption function Investment multiplier, Investment |
| May | function, Autonomous & Induced investment Marginal efficiency of capital |

Dr. Nehare.

# Nabira Mahavidyalaya, Katol

**Teaching Plan 2023-2024**

**Name of the Teacher** ....Dr. G. G. Nehare
**Department** ....Economics
**Subject/Paper**....Economics..... **Class** ....B. A. II.....

| MONTHS | TOPIC TO BE COVERED |
|---|---|
| August | Core Banking system, elements of CBS-Internet & Mobile Banking, NEFT, RTGS, electronics funds Transfer Society for worldwide Interbank financial communication |
| September | E-Banking, Advantages, and impact on Commercial Bank, E-Banking Product- ATM, Credit Card, Debit Card, Smart Card, E-money, D-MAT Account, MICR Cheque Transitions |
| October | Retail Banking, Commercial Banc, Regional Bank, NPA, Money Market, financial market Stock exchang, Sensex and NIFTY (SEBI) |
| November | Indian economy, National Income, Population HDI, Gender Development, five year Plan, NIT Ayog, Indian Agri, Cropping pattern, Land Reforms Gree Revolution, Food security, Public Dist System in India. |
| December | Problems of Industries, Public seetor, MSME, Industrial sickeness in India, Foreign trade, BRICS, LPG, GATT, WTO, FDI, MNC, and Trade Agreement. |
| January | |
| February | |
| March | |
| April | |
| May | |

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# Nabira Mahavidyalaya, Katol

Teaching Plan 2023-2024

Name of the Teacher :- Dr. Gurudas G. Neware

Department : Economics

Subject/Paper Economics Class B.A. III

| MONTHS | TOPIC TO BE COVERED |
|---|---|
| August | Economy Capitalist, Socialist, Mixed, Population, Urbanization, National income, Maharastra Economy, |
| September | Indian Agriculture, cropping Pattern, Irrigation, Green Revolution, Contract farming, Coop insurance |
| October | Problem of Agriculture Agriculture Crisis Role of industries in Economic Development, Cottage |
| November | MSME, Role of Public & Private Sector, Disinvestment (PPT), LPG. |
| December | Employment, Labour Problem in India, child labour, Poverty, Inequality in India, Vicious Circle of Poverty, Food security Programme, Wage employment Urban Poverty Programme. |
| January | Economic Development, Sustainable Development |
| February | Human Development Index, GDP, Poverty Index, Inclusive growth, Achievement of five year |
| March | Plan, NITI Aayog, SEZ, Economic Reform |
| April | Importance of Public Finance, Indian tax structure GST, Public debt, Problems of public debt, |
| May | Budget, finance Commission, India foreign trade, Export & Import, Trade Agreement BRICS, WTO, Balance of Payments FDI MNC, |

Dr. Neware.

# DEPARTMENT OF COMMERCE

NABIRA MAHAVIDYALAYA, KATOL.

## ACTION PLAN – 2023-24

The department finalized the following plan of action for the forthcoming session i.e. 2023-24.

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 "Commerce Exhibition".
4. Planned to organize Guest Lectures of eminent personalities.
5. Departmental activities like Bridge Course, Maza Warga Mitch Vakta, Quiz Competition, Student Seminars, Parent Meet, Aukshan, etc. will be organized.
6. Felicitation 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.

for 3/3

Dr. G. K. Khorgade
H.O.D. Commerce
Nabira Mahavidyalaya, katol.

## DEPARTMENT OF COMMERCE

NABIRA MAHAVIDYALAYA, KATOL.

## MONTH WISE ACTION PLAN – 2023-24

| Month | Action to be taken |
|---|---|
| July 2023 | • Appointments of necessary CHB Teachers.<br>• Bridge Course ( 24-07-2023 to 31-07-2023).<br>• Commencement of regular classes (From 01-08-2023). |
| August 2023 | • Acceleration of teaching work.<br>• Finding out Advanced and Slow learners. |
| September 2023 | • Self Governance by students (05-09-2023).<br>• Guest Lecture. |
| October 2023 | • Maza Varg Mich Vakta (Every Saturday)<br>• Remedial coaching.<br>• Test Examination.<br>• Internal Assessment (odd semesters). |
| November 2023 | • Winter Vacation |
| December 2023 | • Experimental Learning - Industrial visit / Field visit. |
| January 2024 | • Commerce Exhibition.<br>• Quiz Competition |
| February 2024 | • Guest Lecture.<br>• Student seminars. |
| March 2024 | • Test Examination.<br>• Internal Assessment (even semesters).<br>• Maza Varg Mich Vakta (Every Saturday)<br>• Remedial coaching. |
| April 2024 | • Remedial coaching. |
| May 2024 | Summer Vacation |
| June 2024 | Summer Vacation |

Dr. G. K. Khorgade
Head, Dept. of Commerce

# Department of Commerce
Nabira Mahavidyalaya, Katol.

## Academic Calendar 2023-24

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1) **Terms**

| | | |
|---|---|---|
| First Term (Odd Semesters) | : | 16-06-2023 to 31-10-2023 |
| Second Term (Even Semesters) | : | 01-12-2023 to 30-04-2024 |

2) **Vacation**

| | | |
|---|---|---|
| Winter vacation | : | 01-11-2023 to 30-11-2023 |
| Summer Vacation | : | 02-05-2024 to 15-06-2024 |

3) **Test Exam.**

| | | |
|---|---|---|
| First Term | : | First Week of October 2023 |
| Second Term | : | First Week of March 2024 |

4) **Viva (Internal Assessment)**

| | | |
|---|---|---|
| First Term | : | Second Week of October 2023 |
| Second Term | : | Second Week of March 2024 |

5) **Remedial Coaching** : October 2023, March - April 2024

6) **Activities**

| | | | |
|---|---|---|---|
| (i) | Bridge Course (ओळख वाणीज्याची) | : | 24-07-2023 to 31-07-2023 |
| (ii) | Self Governance by students | : | 05-09-2023 |
| (iii) | माझा वर्ग मीच वक्ता (For M.Com. Students only) | : | Every Saturday in the month of October 2023 and March 2024 |
| (iv) | Guest Lectures | : | September 2023 and February 2024 |
| (vi) | Experimental Learning : (Industrial visit / Field visit) | : | December 2023 |
| (vi) | Commerce Exhibition / Trade Fair | : | January 2024 |
| (vii) | Student Seminars | : | February 2024 |

**Note:** Separate notices will circulate time to time for specific dates of above activities, where specific dates are not mentioned.

for. क 3/5

Dr. G. K. Khorgade
Head, Dept. of Commerce

दिनांक :16-01-2024

वाणिज्य विभागामध्ये दिनांक 16-01-2024 ला वाणिज्य विभागातील प्राध्यापकांची सभा आयोजित केली करण्यात आली.

सभेचे विषय :

1) Winter Examination
2) Online Workshop
3) Industrial Visit
4) Commerce Exhibition
5) IQAC

सभेला खालील प्राध्यापक उपस्थित होते :

1) V.R. Rikib
2) M.S Gadhao
3) J.S. Kalambhe
4) R.G. Gangale
5) G.K. Ghorpade
6) S.D Chandak
7) P N Raut
8) K.R. Nabira
9) P.P. Bagadule

दिनांक 16-01-2024 ला वाणिज्य विभागातील प्राध्यापकांची सभा आयोजित करण्यात आली होती. सभेत खालील विषयावर ठराव पारित करण्यात आले.

विषय 1) Winter Examination - 2023

ठराव : Winter - 2023, B.Com. I, III, V Sem. या वर्गातील सर्व विषयांच्या उत्तर पत्रिकेचे मुल्यांकन आणि Internal, Theory marks विद्यापीठाने दिलेल्या मुदतीच्या आत Online सबमिट करणे, असे सर्वानुमते ठरले.

विषय 2) Online Workshop
ठराव : स्वर्गीय दानशूर श्री पांडुलालजी नबीरा यांच्या 134 व्या जयंती पित्यर्थ वाणिज्य विभागाद्वारे Online Workshop चे आयोजन दिनांक 30 जानेवारी ते 5 फेब्रुवारी 2024 च्या दरम्यान करण्याचे ठरले. यासाठी डॉ. बलदेव काकडे, प्रा. सचिन गगन, श्री रोशन निबुलकर, सौ. निधी गुंडदा यांना आमंत्रित करण्याचे सर्वानुमते ठरले.

विषय 3) Industrial Visit
ठराव दिनशा कंपनी ~~नागपूर~~ किंवा स्पेसवुड फर्निचर प्रा.लि. नागपूर यांच्याकडे M-Com अंतिम वर्षाच्या विद्यार्थ्यांना Industrial Visit करीता फेब्रुवारी 2024 च्या शेवटच्या आठवड्यात नेण्याचे सर्वानुमते ठरले.

विषय 4) Commerce Exhibition
ठराव वाणिज्य विभागाच्या वतीने Commerce Exhibition चे आयोजन मार्च 2024 महिन्यात करण्याचे सर्वानुमते ठरले.

विषय 5) IQAC
ठराव सत्र वर्ष 2023-24 मध्ये IQAC ला सादर करावयाच्या अहवाल तयार करण्याबाबत चर्चा करून Flyer व Report writing चे कार्य प्रा. जाधव सर, Feedback घेण्या करण्याचे कार्य प्रा. कुंभे सर, सर्व कार्यक्रमांचे फोटो संकलित करण्याचे कार्य प्रा. प्रियंका बागडे करतील असे सर्वानुमते ठरले.

1) V.R. Raibe
2) R.G. Gonzale
3) M.S. Jadhao
4) P.P. Bajulaike
5) J.S. Kolambhe
6) G.K. Khorjade

वाणिज्य विभागामध्ये दिनांक 19-03-2024 ला वाणिज्य विभागातील प्राध्यापकांची सभा आयोजित करण्यात आली.
सभेचे विषय :
1) मागील सभेच्या इतिवृत्तास मंजुरी देणे
2) M.Com. Sem. II (NEP 2020) च्या On Job Training संदर्भात चर्चा करणे
3) Commerce Exhibition -2024 च्या आयोजनाबाबत चर्चा करणे.

सभेला खालील प्राध्यापक उपस्थित होते.
1) V.R. Raut
2) R.G. Gangate
3) M.S. Jadhao
4) P.P. Bujadmuke
5) J.S. Kalambe
6) G.R. Khorgade

दिनांक 19-03-2024 ला वाणिज्य विभागातील प्राध्यापकांची सभा आयोजित करण्यात आली होती. सभेत खालील विषयावर चर्चा करून ठरात पारित करण्यात आले.

विषय 1): मागील सभेच्या इतिवृत्तास मंजुरी देणे
A) Winter 2023, B.Com. Sem. I, III, V, या वर्गातील सर्व विषयांच्या उत्तरपत्रिकांचे मुल्यांकन करून आणि Internal, Theory marks विद्यापीठाने दिलेल्या मुदतीच्या आत Online Submit केलेले असून सदर वर्गांचे सर्व निकाल विद्यापीठाने जाहिर केले याची नोंद घेण्यात आली.

B) स्वर्गीय दामोदर झी राठीकुलवालजी नबीरा यांच्या 134 व्या जयंती पित्यर्थ वाणिज्य विभागाद्वारे

online workshop चे आयोजन दिनांक 30 जानेवारी 2024 ते 5 फेब्रुवारी 2024 या दरम्यान यशस्वीरित्या करण्यात आले, याची नोंद घेण्यात आली.

C) Industrial Visit साठी सेझवुड फर्निचर प्रा.लि. M.I.D.C नागपूर या कंपनीला 09 फेब्रुवारी 2024 रोजी मा.श्री. अंतिम वर्षाच्या विद्यार्थ्यांसह भेट देण्याचे निश्चित झाले होते. परंतु याबाबत विद्यार्थ्यांकडून प्रतिसाद न आल्याने औद्योगिक भेट रद्द करण्यात आली, याची नोंद घेण्यात आली.

D) M.Sc च्या परिक्षा आणि रसायनशास्त्र विभागाद्वारे आयोजित आंतरराष्ट्रीय परिषदेच्या अनुषंगाने पूर्वनियोजित वाणिज्य प्रदर्शनी मार्च 2024 या महिन्यात आयोजित होवू शकली नाही, याची नोंद घेण्यात आली.

E) सन वर्ष 2023-24 मध्ये IQAC ला सादर करावयाच्या अहवाल तयार करण्याबाबतची कार्यवाही सुरु आहे, याची नोंद घेण्यात आली.

विषय 2) M.Com. Sem. II (NEP 2020) च्या On Job Training संदर्भात चर्चा करणे

ठराव : वरील विषयाच्या संदर्भात खालील प्रमाणे सविस्तर चर्चा करण्यात आली.

a) विद्यापीठाकडून प्राप्त दिशानिर्देशानुसार M.Com Sem. II च्या विद्यार्थ्यांना On Job Training, Field Project or Community Engagement Project या पर्यायांपैकी सर्वसंमते On Job Training हा पर्याय निश्चित करण्यात आला.

b) काटोल शहरातील विविध बँका, सहकारी पतसंस्था, वित्तीय संस्था आणि इतर खाजगी आस्थापने यांच्याशी संपर्क करणे.

c) M.Com. II Sem. महील प्रवेशित विद्यार्थ्यांनी on job training साठी विद्यार्थ्यांना जावू असणाऱ्या परिसरातील आस्थापनांची माहिती व शोध घेणे.

d) On job training संदर्भात विद्यार्थ्यांकडून माहिती संकलनासाठी निश्चित प्रारुप तयार करण्यात यावे. प्रारुपामध्ये विद्यार्थ्यांचे नाव, कार्य ठिकाण, पद, संपर्क क्रमांक, जिमोटॅग फोटो इ. समावेश असावा.

वरील विषयानुसार कार्यवाही करण्याचे सर्वानुमते ठरले.

विषय 3) Commerce Exhibition - 2024 च्या आयोजनाबाबत चर्चा करणे.

ठराव: वाणिज्य प्रदर्शनीचे आयोजन दिनांक 03-04-2024 रोजी करण्याचे सर्वानुमते ठरले. दरवर्षी प्रमाणे B.Com. अंतिम वर्षाच्या विद्यार्थ्यांचे Seminar दिनांक 23-03-2024 रोजी आयोजित करण्याचे सर्वानुमते ठरले.

विषय 4) सत्र 2023-2024 या वर्षाच्या अभ्यासक्रम पुर्णतेबाबत (Syllabus completion).

ठराव :- वाणिज्य विभागातील सर्व प्राध्यापकांची सभेमध्ये अभ्यासक्रम पुर्णतेबाबत चर्चा करुन सत्र पुर्ण होण्याआधी सर्व विषयांचे अभ्यासक्रम पुर्ण होण्यासाठी जास्तीच्या तासिका घेऊन प्रयत्न केले जातील असे सर्वमिते ठरले.

डॉ. शा. र. कुरेशी
विभाग प्रमुख

**NABIRA MAHAVIDYALAYA, KATOL**
**PROFORMA OF TEACHING PLAN – 2023-24**
**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 |
|---|---|---|---|
| **July.** | B.Com. I Sem. | B/E | Introduction to Economics |
| | B. Com. III Sem. | H/D | |
| | B.Com. V Sem. | I/E | Indian Economy & Planning. |
| | B.Com. V Sem. | C/A | Cost Accounting: Theory, Simple problems of Cost Sheet, Tende And Quotation. |
| **Aug.** | B.Com. I Sem. | B/E | Demand Analysis and Demand Forecasting |
| | B. Com. III Sem. | H/D | |
| | B.Com. V Sem. | I/E | Indian Economy & Policy. |
| | B.Com. Sem VI | C/A | Reconciliation of Profit & Loss shown by Cost and Financial Accounts. |
| **Sept.** | B.Com. I Sem. | B/E | Demand Forecasting. |
| | B. Com. III Sem | H/D | |
| | B.Com. V Sem. | I/E | Population & Unemployment. |
| | B.Com. VI Sem. | C/A | Process Cost Accounting. |
| **Oct.** | B.Com. I Sem. | B/E | Supply and Production Analysis. |
| | B. Com. III Sem | H/D | |
| | B.Com. V Sem. | I/E | India's Public Finance. |
| | B.Com. V Sem. | C/A | Contract Costing |

**Winter Vacation 01 Nov. 2023 to 30 Nov. 2023**

| | | | |
|---|---|---|---|
| **Dec.** | B.Com. II Sem | B/E | Market Structure. |
| | B. Com. IV Sem. | O/B | Introduction of Organizational Behavior |
| | B.Com. VI Sem. | I/E | Indian Agriculture. |
| | B. Com. VI Sem. | M/A | Management Accounting |

| | | | |
|---|---|---|---|
| **Jan.** | B.Com. II Sem. | B/E | Cost Analysis |
| | B.Com. III Sem. | O/B | History and Development of Organizational Behavior |
| | B.Com. VI Sem. | I/E | Indian Industry. |
| | B.Com. VI Sem. | M/A | Business Budget & Budgetary Control |
| **Feb.** | B.Com. II Sem. | B/E | Cost Analysis |
| | B.Com. III Sem. | O/B | Organizational Culture |
| | B.Com. VI Sem. | I/E | Indian Service Sector and Indian International Trade. |
| | B.Com. VI Sem. | M/A | Ratio Analysis |
| **Mar.** | B.Com. II Sem. | B/E | Pricing Concepts. |
| | B.Com. III Sem. | O/B | Moral and Motivation |
| | B.Com. VI Sem. | I/E | Indian Service Sector and Indian International Trade. |
| | B.Com. VI Sem. | M/A | Fund Flow Analysis |
| **Apr.** | B.Com. II Sem. | B/E | Introductory Macroeconomics. |
| | B.Com. III Sem. | O/B | Organizational Changes |
| | B.Com. VI Sem. | I/E | Contribution of Indian Economic Thinkers. |
| | B.Com. VI Sem. | M/A | Breck Even Point |

DR. Vaishali R. Ruikar

# NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2023-24

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<br>Unit-II | Nature & Scope of Business,<br>Management and Administration |
| Sept. | Unit-III | Decision Making and Organization |
| Oct. | 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 – 2023-24

To be submitted to the Teacher Appraisal Committee

Name of the teacher : **Dr. R. G. Gongale** Dept. : Commerce

Subject/Paper : **Financial Accounting -I** **Class : B.Com. SEM- 3rd**

| Month | Unit | Topics to be covered |
|---|---|---|
| Aug. | Unit-I | Consignment Accounts |
| Sept. | Unit-II | Hire Purchase A/c |
| Oct. | Unit-III | Issue of Shares |
| Nov. | Unit-IV | Final A/C of Companies Act. 2013 |

**Subject/Paper :** **Income Tax** **Class : B.Com. SEM- 3rd**

| Month | Unit | Topics to be covered |
|---|---|---|
| Aug. | Unit-I | Introduction of Income Tax<br>Residential Status & Tax Slab<br>Income Tax Calculation |
| | Unit-II | Deduction U/S 80 C to 80 U |
| Sept. | Unit-II | Income From Salary |
| Oct. | Unit-III | Income from House Property |
| | Unit-IV | Income from Other Sources |

Signature of the teacher

# NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2023-24

To be submitted to the Teacher Appraisal Committee

Name of the teacher : **Dr. R. G. Gongale** Dept. : Commerce

Subject/Paper : **Financial Accounting -I** **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 : 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 – 2023-24

To be submitted to the Teacher Appraisal Committee

Name of the teacher : **Dr. R. G. Gongale** Dept. : Commerce

Subject/Paper : **Company Law** **Class : M. Com. 4th Sem.**

| Month | Unit | Topics to be covered |
|---|---|---|
| Jan. | Unit-I | • Introduction to Companies Act 2013.<br>• Formation of Companies<br>• Memorandum of Association<br>• Prospectus<br>• Kinds of Share Capital<br>• Issue of Sweat Equity shares. |
| Feb. | Unit-II | • Issue and redemption of preference shares,<br>• Registration of Charges including punishment for contravention.<br>• Register of members<br>• Meetings of shareholders. |
| March. | Unit-III | • Meetings of Board<br>Audit Committee, Powers of Board.<br>• Loan to Directors, Loans and Investment by the Company, Related party Transaction<br>• Appointment, Resignation and Removal of Auditors, Qualifications and Disqualification of auditors. |
| April. | Unit-IV | • Appointment, Resignation and Removal of Directors,<br>• Appointment of Managing Director, Whole Time Director,<br>• Key Managerial Person, secretarial Audit, Functions of Company Secretary |

Signature of the teacher

# NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2023-2024

To be submitted to the Teacher Appraisal Committee

Name of the teacher : **Dr. R. G. Gongale** Dept. : Commerce

Subject/Paper : **Industrial Laws** **Class : B.Com. SEM- 6th**

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| **Month** | **Unit** | **Topics to be covered** |
|---|---|---|
| Aug. | Unit-I | i) The Indian Factories Act, 1948 |
| | | ii) The Industrial Disputs Act, 1947 |
| | Unit-II | iii) Laws Relating to Wages |
| | | iv) Laws relating to Bonus and Gratuity |
| | | i) Laws Relating to employees State Insurance and Provident Fund |
| Sept | Unit-II | i) Laws Relating to workman Compensation act 1923 and maternity Benefits act 1961 |
| | Unit _ III | i) Child Labour act 1986 |
| | | ii) Trade Union act 1926 |
| | | iii) International Labour Organization |
| Oct. | Unit-III | i) Contract labour act |
| | Unit – IV | ii) Industrial Estat |
| | | iii) Intellectual Property Right law in India |
| | | iv) Environment Protection act 1986 |

Signature of the teacher

# NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2023-24

To be submitted to the Teacher Appraisal Committee

Name of the teacher: P. N. Raut  Department of Commerce

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Aug. | B. Com. Sem.-V | F/A | Unit-I – Amalgamation of Companies |
| | M. Com. Sem.-I | AFA | Unit-I – Accounting Standards |
| | M. Com. Sem.-I | R/M | Unit-I – Concept of Research |
| | M.Com. Sem.-III | DT | Unit-I – Meaning of Direct Tax, Income From Profession |
| Sept | B. Com. Sem.-V | F/A | Unit-II – Reconstruction of Companies |
| | M. Com. Sem.-I | AFA | Unit-II – Computer Software Accounting |
| | M. Com. Sem.-I | R/M | Unit-II – Data Collection |
| | M.Com. Sem.-III | DT | Unit-II– Capital Gains |
| Sep/Oct | B. Com. Sem.-V | F/A | Unit-III – Account of Public Utility Companies |
| | M. Com. Sem.-I | AFA | Unit-III – New Trends in Accounting |
| | M. Com. Sem.-I | R/M | Unit-III – Report Writing |
| | M.Com. Sem.-III | DT | Unit-III – Deductions U/S 80s |
| Oct. | B. Com. Sem.-V | F/A | Unit-IV – Valuation of Share |
| | M. Com. Sem.-I | AFA | Unit-IV – Hire – Purchase Accounting |
| | M. Com. Sem.-I | R/M | Unit-IV – IPR |
| | M.Com. Sem.-III | DT | Unit-IV– Service Accounting |

## Diwali Vacation: 1 Nov. 2023 to 30 Nov. 2023

| | | | |
|---|---|---|---|
| Dec. | B. Com. Sem.-VI | F/A | Unit-I – Accounts of Holding Company |
| | M. Com. Sem.-II | AFA | Unit-I – Accounting For Corporate Restructuring |
| | M. Com. Sem.-IV | CTC | Unit-I – Current Trends in Digital Commerce |
| | M.Com. Sem.-IV | IDT | Unit-I – Meaning of Indirect Tax, Registration For GST. |
| Jan. | B. Com. Sem.-V | F/A | Unit-II – Insurance Claims |
| | M. Com. Sem.-I | AFA | Unit-II – Accounting For Corporate Reconstruction |
| | M. Com. Sem.-IV | CTC | Unit-II– Digitalization of Commerce in India |
| | M.Com. Sem.-IV | IDT | Unit-II – Types if GST, and Calculation |
| Feb. | B. Com. Sem.-V | F/A | Unit-III – Investment Accounts |
| | M. Com. Sem.-I | AFA | Unit-III – Consolidated Financial Statements |
| | M. Com. Sem.-IV | CTC | Unit-III– Digital Retailing and Services |
| | M.Com. Sem.-IV | IDT | Unit-III – Input and Output Tax Credit |
| Mar. | B. Com. Sem.-V | F/A | Unit-IV – Profit Prior to Incorporation |
| | M. Com. Sem.-I | AFA | Unit-IV – Liquidation of Company |
| | M. Com. Sem.-IV | CTC | Unit-IV – Social Media in Commerce and Digital Devices and Application |
| | M.Com. Sem.-IV | IDT | Unit-IV – Custom Duty |

**Dr. P. N. Raut**

Signature of the teacher

# NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2023-24

To be submitted to the Teacher Appraisal Committee

Name of the teacher: S.D. Chandak  Department of Commerce

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Aug. | B.Com.Sem.-V | M/M | Unit-I – Commercial Firm |
| | B.Com.Sem.-I | C/F | Unit-I – Concept of Marketing |
| Sept | B.Com.Sem.-V | M/M | Unit-II – Sole Trader |
| | B.Com.Sem.-I | C/F | Unit-II – Consumer Market |
| Sep/Oct | B.Com.Sem.-V | M/M | Unit-III – Company |
| | B.Com.Sem.-I | C/F | Unit-III- Production Planning & Development |
| Oct. | B.Com.Sem.-V | M/M | Unit-IV- Start Ups |
| | B.Com.Sem.-I | C/F | Unit-IV- Consumer Behaviour. |

**Diwali Vacation: 1 Nov. 2023 to 30 Nov. 2023**

| | | | |
|---|---|---|---|
| Dec. | B.Com.Sem.-VI | HRM | Unit-I – Introduction on HRM |
| | B.Com.Sem.- II | C/S | Unit-I – Commercial Services, Marketing Mix of Services, Career Opportunity. |
| Jan. | B.Com.Sem.-VI | HRM | Unit-II – Recruitment Selection & Training |
| | B.Com.Sem.-II | C/S | Unit-II - Aviation Services |
| Feb.. | B.Com.Sem.-VI | HRM | Unit-III- Laboure Welfare & Collective Bargaining |
| | B.Com.Sem. II | C/S | Unit-III- Information Technology Enabled Services (ITES) |

| | | | |
|---|---|---|---|
| Mar. | B.Com.Sem.-VI | HRM | Unit-IV – Human Resources Planning And Accounting. |
| | B.Com.Sem.-II | C/S | Unit-IV–Banking Services, General Insurance Services. |

**S.D.Chandak.**

Signature of the teacher

# NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2023-24

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 |
|---|---|---|---|
| Aug | M.Com.Sem.-I | IFS | Unit-I – component of formal financial system |
| | M.Com.Sem.-I | AA | Unit-I – Introduction to Auditing |
| | B.Com. Sem.-III | FA | Unit-I – Issue of shares |
| | B.Com . Sem-V | FA | Unit-I- Amalgamation of companies |
| | B.Com. Sem V | MM | Unit- Introduction to MM |
| Sep. | M.Com.Sem.-I | IFS | Unit-II – Banking |
| | M.Com.Sem.-I | AA | Unit-II – Audit of Ltd. Companies |
| | B.Com.Sem.-III | FA | Unit-II – Final Accounts of companies |
| | B.Com.Sem-V | FA | Unit-II – Re-organization and reconstruction of companies |
| | B.Com. Sem V | MM | Unit II -Market and pricing policy |
| Sep/Oct | M.Com.Sem.-I | IFS | Unit-III – Insurance |
| | M.Com.Sem.-I | AA | Unit-III– Audit under computerized information system |
| | B.Com.Sem.-III | FA | Unit-III – Hire purchase system |
| | B.Com.Sem-V | FA | Unit-III– Valuation of shares. |
| | B.Com. Sem V | MM | Unit III-Product planning |
| Oct. | M.Com.Sem.-I | IFS | Unit-IV – Capital market |
| | M.Com.Sem.-I | AA | Unit-IV– Special consideration in |
| | B.Com.Sem.-III | FA | Unit-IV – Consignment Accounts. |
| | B.Com.Sem-V | FA | Unit-IV- Double Accounting system |
| | B.Com. Sem V | MM | Unit IV-Consumer behavior |

## Diwali Vacation: 01 Nov. 2023 to 30 Nov. 2023

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Dec | M.Com.Sem.-I | IFS | Unit-IV – Capital market |
| | M.Com.Sem.-I | AA | Unit-IV– Special consideration in |
| | B.Com.Sem.-III | FA | Unit-IV – Consignment Accounts. |
| | B.Com.Sem-V | FA | Unit-IV- Double Accounting system |
| | B.Com. Sem V | MM | Unit IV-Consumer behavior |
| Jan | M.Com.Sem.-II | B/R & CSR | Unit-I – Introduction to business ethics |
| | M.Com.Sem.-IV | IBE | Unit-I – theoretical framework of business environment |
| | B.Com.Sem.-IV | FA | Unit-I – Financial accounts of Banking companies |
| | B.Com.Sem-VI | FA | Unit-I - Accounting of holding company |
| | B.Com. Sem VI | HRM | Unit I – HRM introduction |
| Feb. | M.Com.Sem.-II | B/R & CSR | Unit-II – Ethical issues in the accounting and finance |
| | M.Com.Sem.-IV | B/E-I | Unit-II– Demographic environment |
| | B.Com.Sem.-IV | FA | Unit-II– Final accounts of General insurance company |
| | B.Com.Sem-VI | FA | Unit-II-insurance claim |
| | B.Com. Sem VI | HRM | Unit II – Recruitment and training |
| Mar. | M.Com.Sem.-II | B/R & CSR | Unit-III – corporate social responsibility |
| | M.Com.Sem.-IV | IBE | Unit-III– International economic cooperate business |

| | | | |
|---|---|---|---|
| | B.Com.Sem.-IV | FA | Unit-III– Valuation of Goodwill |
| | B.Com.Sem-VI | FA | Unit-III- Investment account |
| | B.Com. Sem VI | HRM | Unit-III- Labor Welfare |
| April. | M.Com.Sem.-II | B/R & CSR | Unit-IV – review current trends and opportunities |
| | M.Com.Sem.-IV | IBE | Unit-IV– International trade and investment theories |
| | B.Com.Sem.-IV | FA | Unit-IV– Liquidation of company |
| | B.Com.Sem-VI | FA | Unit-IV- Profit prior to incorporation |
| | B.Com. Sem VI | HRM | Unit IV- Human resources planning |

**Dr.Komal R. Nabira.**
Signature of the teacher

# NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2023-24

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 |
|---|---|---|---|
| Aug | M.Com.Sem.-I | R/M | Unit-I – Concept of Research |
| | B.Com.Sem.-I | B/E-I | Unit-I – Contents of Economic |
| | B.Com. Sem.-III | M/E-I | Unit-I – Money |
| | B.Com . Sem-V | C/A | Unit-I- Cost Accounting. |
| Sep. | M.Com.Sem.-I | R/M | Unit-II – Data Collection |
| | B.Com.Sem.-I | B/E-I | Unit-II – Demand Analysis |
| | B.Com.Sem.-III | M/E-I | Unit-II – Inflation & Deflation |
| | B.Com.Sem-V | C/A | Unit-II – Reconciliation of Profit/ Loss show by Cost and Financial Account. |
| Sep/Oct | M.Com.Sem.-I | R/M | Unit-III – Report Writing |
| | B.Com.Sem.-I | B/E- I | Unit-III– Demand Forecasting |
| | B.Com.Sem.-III | M/E-I | Unit-III – Money Market & Policies |
| | B.Com.Sem-V | C/A | Unit-III– Process Cost Accounting. |
| Oct. | M.Com.Sem.-I | R/M | Unit-IV – IPR. |
| | B.Com.Sem.-I | BE -I | Unit-IV– Supply & Production Analysis. |
| | B.Com.Sem.-III | M/E-I | Unit-IV – Money Market & Policies. |
| | B.Com.Sem-V | C/A | Unit-IV- Contract Costing. |

## Diwali Vacation: 01 Nov. 2023 to 30 Nov. 2023

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Dec. | M.Com.Sem.-II | B/E & CSR | Unit-I –Introduction to Business Ethics. |
| | B.Com.Sem.-II | B/E-II | Unit-I– Cost Analysis. |
| | B.Com.Sem.-IV | M/E-II | Unit-I – Commercial Banking. |
| | B.Com.Sem-VI | M/A | Unit- I- Management Accounting. |
| Jan | M.Com.Sem.-II | B/E & CSR | Unit-II – Ethical Issues in the Accounting & Finance |
| | B.Com.Sem.-II | B/E-II | Unit-II – Market Structure |
| | B.Com.Sem.-IV | M/E-II | Unit-II – Banking & Core Banking. |
| | B.Com.Sem-VI | M/A | Unit-II - Business Budget & Budgetary Control. |
| Feb. | M.Com.Sem.-II | B/R & CSR | Unit-III – Corporate Social Responsibility. |
| | B.Com.Sem.-II | B/E-II | Unit-III– Pricing Concepts. |
| | B.Com.Sem.-IV | M/E-II | Unit-III– Banks & Customer Relationship Services. |
| | B.Com.Sem-VI | M/A | Unit-III- Ratio Analysis. |
| Mar. | M.Com.Sem.-II | B/R & CSR | Unit-IV – Review Current Trends & Opportunities in CSR. |
| | B.Com.Sem.-II | B/E-II | Unit-IV– Introductory Macroeconomic. |
| | B.Com.Sem.-IV | M/E-II | Unit-IV– Central Bank. |
| | B.Com.Sem-VI | M/A | Unit-IV- Fund Flow Analysis. |

**Priyanka P. Bagadade.**
Signature of the teacher

# NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2023-24

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 | F/A-I | Unit-I - Basic of Financial Accounting |
| | B.Com.Sem.-III | I/T | Unit-I – Introduction Income Tax |
| | B.Com.Sem.-V | M/P | Unit-I - Management &Administration |
| | M.Com.Sem.-I | A/A | Unit-I- Introduction of Auditing |
| Sept. | B.Com.Sem.-I | F/A-I | Unit-II - Financial Account of Sole Trader |
| | B.Com.Sem.-III | I/T | Unit-II – Computation of Salary |
| | B.Com.Sem.-V | M/P | Unit-II - Managerial Development & Group Dynamics |
| | M.Com.Sem.-I | A/A | Unit-II- Audit of Limited Companies |
| Oct. | B.Com.Sem.-I | F/A-I | Unit-III: - Branch Accounting |
| | B.Com.Sem.-III | I/T | Unit-III – Income from House Property |
| | B.Com.Sem.-V | M/P | Unit-III- Managerial Style |
| | M.Com.Sem.-I | A/A | Unit-III- Audit Under Computerized Information System Environment |

**Diwali Vacation: 01 Nov. 2023 to 30 Nov. 2023**

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Dec. | B.Com.Sem.-I | F/A-I | Unit-IV - Final Accounts of Co-op. Society |
| | B.Com.Sem.-III | I/T | Unit-IV - Income from Other Sources |
| | B.Com.Sem.-V | M/P | Unit-IV - Motivation |
| | M.Com.Sem.-I | A/A | Unit-IV- Special Considerations In |
| Jan. | B.Com.Sem.-II | SBM | Unit-I – Stat. & Measures of Central Tendency |
| | B.Com.Sem.-IV | S/P | Unit-I – Company Secretary |
| | B.Com.Sem. VI | A/S | Unit-I – Correlation |
| | M.Com.Sem.-IV | C/L | Unit-I- Company Law |

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Feb. | B.Com.Sem.-II | SBM | Unit-II - Dispersion |
| | B.Com.Sem.-IV | S/P | Unit-II – The Company Act & Administration |
| | B.Com.Sem.-VI | A/S | Unit-II – Regression |
| | M.Com.Sem.-IV | C/L | Unit-II- Company Law |
| Mar. | B.Com.Sem.-II | SBM | Unit-III - Skewness |
| | B.Com.Sem.-IV | S/P | Unit-III – Company Auditor |
| | B.Com.Sem.-VI | A/S | Unit-III - Index Number |
| | M.Com.Sem.-IV | C/L | Unit-III- Company Law |
| Apr. | B.Com. Sem.-II | SBM | Unit-IV - Business Mathematics |
| | B.Com.Sem.-IV | S/P | Unit-IV – Repots and Winding Up |
| | B.Com.Sem.-VI | A/S | Unit-IV - Time Series Analysis |
| | M.Com.Sem.-IV | C/L | Unit-IV- Company Law |

**Jayant Kalambhe**
Signature of the teacher

# NABIRA MAHAVIDYALAYA, KATOL

*PROFORMA OF TEACHING PLAN – 2023-24*

To be submitted to the Teacher Appraisal Committee

Name of the Teacher : G. K. Khorgade Dept.: Commerce

Subject/Paper : Advanced Cost Accounting Class: M.Com. Sem.I (NEP)

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| Month | Topics to be covered |
|---|---|
| August | * Concept of Cost Accounting<br>* Elements of Cost<br>* Statement of Cost<br>* Tenders / Quotations |
| September | * Process Costing<br>* Normal Wastage<br>* Abnormal Loss / Gain<br>* Joint Products<br>* Equivalent Units of Production |
| October | * Contract Costing<br>* Complete Contract<br>* Incomplete Contract<br>* Work in Progress<br>* Notional Profit transferred to P/L A/c |
| November | * Cost Book Keeping<br>* Reconciliation of Cost and Financial Book |

Signature

# NABIRA MAHAVIDYALAYA, KATOL

*PROFORMA OF TEACHING PLAN – 2012-13*
To be submitted to the Teacher Appraisal Committee

Name of the Teacher : G. K. Khorgade Dept.: Commerce

Subject/Paper : Statistical Analysis (S/A) Class: M. Com. Sem. III

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| Month | Topics to be covered |
|---|---|
| August | * Interpolation & Extrapolation :<br>Binomial Expansion Method<br>Newton's Method<br>Lagrange's Method |
| September | * Analysis of Time Series<br>* Association of Attributes<br>* Chi-Square Test |
| October | * Sampling & Test of Significance<br>* Small Samples – 'T' Test<br>* Analysis of Variance – 'F' Test |
| November | * Probability |

Signature

# NABIRA MAHAVIDYALAYA, KATOL

*PROFORMA OF TEACHING PLAN – 2023-24*

To be submitted to the Teacher Appraisal Committee

Name of the Teacher : G. K. Khorgade Dept.: Commerce

Subject/Paper : Advanced Management Account Class: M. Com. Sem. III

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| Month | Topics to be covered |
|---|---|
| August | * Introduction to Management Accounting: Meaning, Objectives, Nature, Scope, Importance, Tools, MIS |
| September | * Marginal Costing (Decision Making)<br>* Break Even Analysis<br>* Budgeting and Budgetary Control |
| October | * Fund Flow Analysis<br>* Cash Flow Analysis |
| November | * Ratio Analysis |

Signature

# NABIRA MAHAVIDYALAYA, KATOL

*PROFORMA OF TEACHING PLAN – 2023-24*

To be submitted to the Teacher Appraisal Committee

Name of the Teacher : G. K. Khorgade Dept.: Commerce

Subject/Paper : Cost Control and Analysis Class: M.Com. Sem.II (NEP)

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| Month | Topics to be covered |
|---|---|
| December | * Material Cost Control<br>* Labour Cost Control |
| January | * Machine Hour Rate<br>* Labour Hour Rate |
| February | * Operating Costing<br>* Goods & Passengers Transporting<br>* Hotel and Power generating |
| March | * Standard Costing<br>* Material Variances<br>* Labour Variances<br>* Overhead Variances |

Signature

# NABIRA MAHAVIDYALAYA, KATOL

*PROFORMA OF TEACHING PLAN – 2023-24*

To be submitted to the Teacher Appraisal Committee

Name of the Teacher : G. K. Khorgade Dept.: Commerce

Subject/Paper : Financial Analysis and Control Class: M.Com. Sem.II (NEP)

---

| Month | Topics to be covered |
|---|---|
| December | * Meaning, Importance Advantages And Limitations of Financial Analysis and Control |
| January | * Common Size Statements<br>* Comparative Statements |
| February | * Capital Budgeting<br>* Pay Back Period<br>* Accounting Rate of Return<br>* Net Present Value<br>* Discounted Pay Back Period |
| March | * Ratio Analysis<br>* Profitability Ratio<br>* Liquidity Ratio<br>* Solvency Ratio<br>* Trend Analysis |

Signature

# NABIRA MAHAVIDYALAYA, KATOL

*PROFORMA OF TEACHING PLAN – 2023-24*

To be submitted to the Teacher Appraisal Committee

Name of the Teacher : G. K. Khorgade Dept.: Commerce

Subject/Paper : Advanced Statistics Class: B.Com. Sem. VI

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| Month | Topics to be covered |
|---|---|
| December | * Coefficient of Correlation<br>* Karl Pearson's Correlation<br>* Spearman's Rank Correlation |
| January | * Regression Analysis |
| February | * Index Numbers<br>* Unweighted Index<br>* Weighted Index<br>* Cost of Living Index |
| March | * Time Series / Trend Analysis<br>* Graphical Method<br>* Free Hand Curve Method<br>* Semi Average Method<br>* Moving Average Method<br>* Least Square Method |

Signature

# NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN - 2023-24

To be submitted to the Teacher Appraisal Committee

Name of the teacher: **Mukesh S. Jadhao** Department of Commerce

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Aug. | B.Com.Sem.-I | F/A-I | Unit-I - Basic of Financial Accounting |
| | | C/F | Unit- I- Commercial Firm |
| | B.Com.Sem.-III | M/E | Unit-I – Money |
| | B.Com.Sem.-V | M/P | Unit-I - Management &Administration |
| Sept. | B.Com.Sem.-I | F/A-I | Unit-II - Financial Account of Sole Trader |
| | | C/F | Unit- II- Sole Traders |
| | B.Com.Sem.-III | M/E | Unit-II – Inflation Deflation |
| | B.Com.Sem.-V | M/P | Unit-II - Managerial Development & Group Dynamics |
| Oct. | B.Com.Sem.-I | F/A-I | Unit-III: - Branch Accounting |
| | | C/F | Unit- III - Company |
| | B.Com.Sem.-III | M/E | Unit-III - Money Market & Policy |
| | B.Com.Sem.-V | M/P | Unit-III- Managerial Style |

**Diwali Vacation: 01 Nov. 2023 to 30 Nov. 2023**

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Dec. | B.Com.Sem.-I | F/A-I | Unit-IV - Final Accounts of Co-op. Society |
| | | C/F | Unit – IV- Start Ups |
| | B.Com.Sem.-III | M/E | Unit-IV – Public Finance |
| | B.Com.Sem.-V | M/P | Unit-IV - Motivation |
| Jan. | B.Com.Sem.-II | SBM | Unit-I – Stat. & Measures of Central Tendency |
| | | C/S | Unit- I- Commercial Services |
| | B.Com.Sem.-IV | S/P | Unit-I – Company Secretary |
| | | M/E | Unit- I- Commercial Banking |

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Feb. | B.Com.Sem.-II | SBM | Unit-II - Dispersion |
| | | C/S | Unit- II-Aviation Services |
| | B.Com.Sem.-IV | S/P | Unit-II – The Company Act & Administration |
| | | M/E | Unit-II- E- Banking & Core Banking |
| Mar. | B.Com.Sem.-II | SBM | Unit-III – Skewness |
| | | C/S | Unit- III-Information Technology Enabled Services |
| | B.Com.Sem.-IV | S/P | Unit-III – Company Auditor |
| | | M/E | Unit- III- Bank & Customer Relationship and Services |
| Apr. | B.Com. Sem.-II | SBM | Unit-IV - Business Mathematics |
| | | C/S | Unit- IV- Banking & Insurance Services |
| | B.Com.Sem.-IV | S/P | Unit-IV – Repots and Winding Up |
| | | M/E | Unit- IV-Central Bank |

**Mukesh S. Jadhao**
Signature of the teacher

# NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN – 2023-24

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.-I | Business Skills | Unit-I – Nature and Scope of Business |
| | B.Com.Sem.-V | Auditing | Unit-I – Basic of Auditing. |
| Sept. | B.Com.Sem.-I | Business Skills | Unit-I– Forms of Business Organisation |
| | B.Com.Sem.-V | Auditing | Unit-II – Audit Working and Procedure. |
| Oct. | B.Com.Sem.-I | Business Skills | Unit-II – Management and Administration. |
| | B.Com.Sem.-V | Auditing | Unit-III- Standard on Auditing, Voching & Verification, Verification of set & Liability. |

**Diwali Vacation: 1 Nov. 2023 to 30 Nov. 2023**

| | | | |
|---|---|---|---|
| Nov. | B.Com.Sem.-II | Business Skills | Unit-III – Decision Making |
| | B.Com.Sem.-V | Auditing | Unit-III – Standard on Auditing, Voching & Verification, Verification of Asset & Liability. |
| Dec. | B.Com.Sem.-I | Business Skills | Unit-IV – Direction |
| | B.Com.Sem.-V | Auditing | Unit-IV - Company Audit & Audit Report . |

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Jan. | B.Com.Sem.-II | Financial Market Operation and Regulatory Bodies. | Unit-I – Financial Institutions |
| | B.Com.Sem. VI | Industrial Law | Unit-I – Indian Factories Act. |
| Feb. | B.Com.Sem.-II | Financial Market Operation Primary Market. | Unit-II - Capital Markets – |
| | B.Com.Sem.-VI | Industrial Law | Unit-II – Law Relating to Wages. |

| Month | Class | Subject/Paper | Topics to be covered |
|---|---|---|---|
| Mar. | B.Com.Sem.-II | Financial Market Operation Secondary Markets. | Unit-III Capital Markets – |
| | B.Com.Sem.-VI | Industrial Law. | Unit-III – Child Labour Act 1986 |
| Apr. | B.Com.Sem.-II | Financial Market Operation. | Unit-IV – Money Market. |
| | B.Com.Sem.-VI | Industrial Law. | Unit-IV – Meaning and Nature of Industtrial Estate. |

**Falguni Kathole**

Signature of the teacher

# RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

(Established by Government o Central Provinces Education Department by Notification No. 513, dated 1st of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016(Maharashtra. Act No.VI of 2017)

**(Academic Section)**

Academic Section, Rashtrasant Tukadoji Maharaj Nagpur University, Jamnalal Bajaj Administrative Building, Mahatma Jotiba Phule Educational Premises,Campus Square to Ambazari T-Point Road,Nagpur-440033

No. Acad. /Acad .Cale. /2023/329 Date: 25/05/2023

## NOTIFICATION

It is notified for general information of all the University conducted/ constituent/ affiliated colleges that the Academic Calendar **for the session 2023-24 will be as under:**

**ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER & ANNUAL PATTERN FOR SESSION 2023-24.**

**1. Terms & Vacation**

| | | |
|---|---|---|
| First Term (Odd semesters & Annual Pattern) | : | 16 .06.2023 to 31.10. 2023 |
| Winter Vacation | : | 01.11.2023 to 30.11.2023 |
| Second Term (Even semesters & Annual Pattern) | : | 01.12.2023 to 30.04.2024 |
| Summer Vacation | : | 02.05.2024 to 15.06.2024 |

**2. Admissions**

| | | |
|---|---|---|
| a) Last date of Admission (First term odd sem. & First Year Annual Pattern) | : | 7th August, 2023 |
| b) Last date for Admission with prior permission of the Vice-Chancellor | : | 7th September, 2023 |

**3. Last date of submission of Enrolment forms to the university** : Within fifteen days from the notified last date of Admission

**4. Examination**

**A. Winter Examinations.**

**1. Commencement of Exam.**

a) Failure Students in even semesters
b) Regular students in odd semesters
c) Failure students in Annual Pattern

: 16.10.2023

**2. Last date for receipt of exams. forms**

| | | |
|---|---|---|
| a) Regular students | : | 31.08.2023 **(for admission other than Ist year)** |
| b) Old Ex-Students | : | 31.08.2023 |
| c) Ex-Students of immediately previous examination | : | Within 15 days from the date of declaration of the result of summer Exams. |

**B. Summer Exams.**

**1. Commencement of Exams.**

a) Failure students of odd semester
b) Regular students of Even semester
c) Failure & Regular students of Annual Pattern

: 15.03.2024

**2. Last date for receipt of examinations forms**

| | | |
|---|---|---|
| a) Regular Students | : | 15.02.2024 |
| b) Old Ex-Students | : | 15.02.2024 |
| c) Ex-Students of immediately previous exam | : | Within 15 days from the date of declaration of the result of winter Exams. |

**5. Declaration of Results** : As per governing provisions of the Act.

**6. Convocation Winter 2022 & Summer 2023** : **December 2023**

**Special Instructions :**

1. The Principals/Heads of the institutions are authorised to ask teachers to attend duties during vacation for exam releated work, if needed.
2. The Principals/Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
3. Students admitted after the last date as specified above shall not be considered for enrolment in the University and therefore, shall not be permitted to appear at the university examinations.
4. All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year
5. Theory and Practical examinations may be held on Sunday with prior permission and intimation.
6. It is necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
7. All efforts should be made to achieve more than 180 teaching days in Annual Pattern and 90 days per Semester in Semester Pattern.
8. This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process. The last date for admissions in higher level semesters shall be 10 days after results of qualifying examinations.
9. Therefore, the last date of admissions for all courses where centralized admission process is adopted shall be notified separately.
10. The Last Date of examination forms for CAP round admission will be 15 days from the last date of admissions.
11. In case, Admissions governed by **Conditional Eligibility** the last date for submission of examinations form shall be within fifteen days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27 of 2008 and 6 0f 2010.

By Order of the Hon'ble Vice- Chancellor

(Dr. Raju Hiwase)
Registrar

**Copy forwarded for information and necessary action to :-**

1. P.A. to Hon'ble Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
2. P.A. to Hon'ble Pro-Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
3. P.A. to Registrar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. The Principals of all Colleges / Head of the Post- Graduate Teaching Departments of the Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
5. All Officers of the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
6. The Registrar of All Universities in the Maharashtra State.
7. Dr. Prashant Maheswary, Dean, Faculty of Science & Technology and Director, Multi-Facility Computer Centre, RTM, Nagpur University, Nagpur.
8. The Editor, All local News Papers. They are requested to kindly publish the above Notification in their esteemed News Paper as a News Item.

(Dr.Rajendra Utkhede)
Deputy Registrar (Acad.)

# NABIRA MAHAVIDYALAYA, KATOL
## BBA DEPARTMENT
## TIME TABLE
## SESSION SECOND (2023-24)

| | | I | II | | III | IV |
|---|---|---|---|---|---|---|
| | | 8.10 TO 09.00 AM | 09,.00 TO 09.50 AM | | 10.05 TO 10.55 AM | 10.55 TO 11.50 AM |
| MON | II SEM | FBM | EM | | ENG | CMA |
| | IV SEM | HRM | MM | | FM | IV&BE |
| | VI SEM | FM II | | | | |
| TUE | II SEM | SOCI | CMA | | ENG | FBM |
| | IV SEM | FW | HRM | | IV&BE | MM |
| | VI SEM | FM I | | | | |
| WED | II SEM | EM | CMA | | ENG | SOCI |
| | IV SEM | FW | HRM | | FM | MM |
| | VI SEM | FM I | | | | |
| THU | II SEM | FBM | SOCI | | ENG | CMA |
| | IV SEM | HRM | FW | | FM | IV&BE |
| | VI SEM | FM II | | | | |
| FRI | II SEM | FBM | EM | | SOCI | CMA |
| | IV SEM | HRM | MM | | FM | FW |
| | VI SEM | FM II | | | | |
| SAT | II SEM | ENG | FBM | | EM | SOCI |
| | IV SEM | IV&BE | MM | | FM | FW |
| | VI SEM | FM I | | | | |

RECESS (15 MINUTES)

HOD/Co-ordinator
BBA Department
N.M.V. Katol

# NABIRA MAHAVIDYALAYA, KATOL
## BBA DEPARTMENT
## TIME TABLE (2023-24)

| | | 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 | | AD | - | FME |
| | III SEM | PFM | EBCG | | EM | BST | MF |
| | 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 | | - | IBM | RM |
| WED | I SEM | ENG | EOB | | AD | FME | F A/C |
| | III SEM | PFM | EBCG | | BST | - | MF |
| | V SEM | POM | RM | | ED | MF | 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 | - | EM | | BST | MF | EBCG |
| | V SEM | POM | IBM | | RM | ED | MF |
| SAT | I SEM | ENG | FME | | F A/C | EOB | MF |
| | III SEM | MF | EM | | BST | PFM | - |
| | V SEM | POM | IBM | | MF | - | ED |

RECESS (10 MINUTES)

HOD/Co-ordinator
BBA Department
N.M.V. Katol

# Nabira Mahavidyalaya, Katol

## BBA Department

**Session-2023-24**

FIRST TERM EXAMINATION

**TIMING 9.30 AM TO 12.30 PM**

| DATE | DAY | SEMESTER | SUBJECT |
|---|---|---|---|
| 31/10/23 | TUESDAY | I | ENGLISH |
| 01/11/23 | WEDNESDAY | I | EOB |
| 02/11/23 | THURSDAY | I | FME |
| 03/11/23 | FRIDAY | I | FA/C TALLY |
| 04/11/23 | SATURDAY | I | AD |

NOTE : ITS COMPULSORY TO ATTEND EXAM.

: UNIFORM AND COLLEGE ID CARD IS COMPULSORY

HOD

HOD/Co-ordinator
BBA Department
N.M.V. Katol

# Nabira Mahavidyalaya, Katol

## BBA Department

**Session-2023-24**

FIRST TERM EXAMINATION

**TIMING 9.30 AM TO 12.30 PM**

| DATE | DAY | SEMESTER | SUBJECT |
|---|---|---|---|
| 31/10/23 | TUESDAY | I | ENGLISH |
| 01/11/23 | WEDNESDAY | I | EOB |
| 02/11/23 | THURSDAY | I | FME |
| 03/11/23 | FRIDAY | I | FA/C TALLY |
| 04/11/23 | SATURDAY | I | AD |
| | | | |
| 31/10/23 | TUESDAY | III | FME |
| 01/11/23 | WEDNESDAY | III | AE |
| 02/11/23 | THURSDAY | III | OB |
| 03/11/23 | FRIDAY | III | CW |
| 04/11/23 | SATURDAY | III | AD |
| | | | |
| 31/10/23 | TUESDAY | V | ED |
| 01/11/23 | WEDNESDAY | V | POM |
| 02/11/23 | THURSDAY | V | RM |
| 03/11/23 | FRIDAY | V | IBE |

NOTE : ITS COMPULSORY TO ATTEND EXAM.

: UNIFORM AND COLLEGE ID CARD IS COMPULSORY.

HOD

HOD/Co-ordinator
BBA Department
N.M.V. Katol

# Nabira Mahavidyalaya, Katol

## BBA Department

**Session-2023-24**

SECOND TERM EXAMINATION

**TIMING 9.30 AM TO 12.30 PM**

| DATE | DAY | SEMESTER | SUBJECT |
|---|---|---|---|
| 10/04/24 | WEDNESDAY | SECOND SEM | ENG |
| 12/04/24 | FRIDAY | SECOND SEM | FBM |
| 13/04/24 | SATURDAY | SECOND SEM | C&M A |
| 15/04/24 | MONDAY | SECOND SEM | ES |
| 16/04/24 | TUESDAY | SECOND SEM | SOCIOLOGY |
| | | | |
| 10/04/24 | WEDNESDAY | FOURTH SEM | FMM |
| 12/04/24 | FRIDAY | FOURTH SEM | HRM |
| 13/04/24 | SATURDAY | FOURTH SEM | FFM |
| 15/04/24 | MONDAY | FOURTH SEM | FW |
| 16/04/24 | TUESDAY | FOURTH SEM | IV &BE |
| | | | |
| 10/04/24 | WEDNESDAY | SIXTH SEM | FM/MM |
| 12/04/24 | FRIDAY | SIXTH SEM | FM/MM |

NOTE : ITS COMPULSORY TO ATTEND EXAM.

: UNIFORM AND COLLEGE ID CARD IS COMPULSORY.

HOD

HOD/Co-ordinator
BBA Department
N.M.V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF ACTION PLAN- **2023-24**

To be submitted to the Teacher Appraisal Committee

Name of Head : Prof. Jayashree Patil Dept.: BBA

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| **Month** | **Topics to be covered** |
|---|---|
| July | Orientation program for first year<br>Bridge course |
| August | Guest Lecture – series of success stories<br>Seminar |
| September | Management games<br>Survey on given topics |
| October | Guest Lecture<br>Class test on syllabus covered |
| November | Guest lecture<br>Work Shop<br>viva voce for semester I, III, V |
| December | Presentation on given topic<br>Group discussion |
| January | BBA day celebration<br>Basic interview skills |
| February | Guest Lecture<br>Management Games |
| March | Class test on syllabus covered<br>viva voce for semester II, IV, VI |

HOD

HOD/Co-ordinator
BBA Department
N.M.V. Katol

**Nabira Mahavidyalaya Katol**
**Department of BBA**
**Session -2023-24**
**Syllabus Completion Review**

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As per established practice of the department the syllabus completion status at the end of the session is as follows:

| Subjects | Semester | Name of Teacher | Syllabus covered | Signature |
|---|---|---|---|---|
| EOB | I | Prof.J.M.Patil | 100 % | |
| OB | III | Prof.J.M.Patil | 100 % | |
| CW | III | Prof.J.M.Patil | 100 % | |
| POM | V | Prof.J.M.Patil | 100 % | |
| ENG | I | Prof.J.G.Alone | 100 % | |
| FME | III | Prof.J.G.Alone | 100 % | |
| ED | V | Prof.J.G.Alone | 100 % | |
| IBE | V | Prof.J.G.Alone | 100 % | |
| Tally | I | Prof.P.S. Rewatkar | 100 % | |
| FME | I | Prof.P.S. Rewatkar | 100 % | |
| AE | III | Prof.P.S. Rewatkar | 100 % | |
| RM | V | Prof.P.S. Rewatkar | 100 % | |
| AD-I | I | Prof.M. C. Gondane | 100 % | |
| AD-II | III | Prof.M. C. Gondane | 100 % | |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

**Nabira Mahavidyalaya Katol**
**Department of BBA**
**Session -2023-24**
**Syllabus Completion Review**

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As per established practice of the department the syllabus completion status at the end of the session is as follows:

| Subjects | Semester | Name of Teacher | Syllabus covered | Signature |
|---|---|---|---|---|
| EM | II | Prof.J.M.Patil | 100 % | |
| SOC | II | Prof.J.M.Patil | 100 % | |
| FHRM | IV | Prof.J.M.Patil | 100 % | |
| IV&BE | IV | Prof.J.M.Patil | 100 % | |
| ENG | II | Prof.J.G.Alone | 100 % | |
| FW | IV | Prof.J.G.Alone | 100 % | |
| FMM | IV | Prof.J.G.Alone | 100 % | |
| FM II | VI | Prof.J.G.Alone | 100 % | |
| FBM | II | Prof.P.S. Rewatkar | 100 % | |
| CMA | II | Prof.P.S. Rewatkar | 100 % | |
| FMM | IV | Prof.P.S. Rewatkar | 100 % | |
| FM I | VI | Prof.P.S. Rewatkar | 100 % | |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

**NABIRA MAHAVIDYALAYA, KATOL**

**PROFORMA OF TEACHING PLAN- 2023-24**

**To be submitted to the Teacher Appraisal Committee**

**Name of Teacher** : **Prof. Jitendra G. Alone**

**Department** : **BBA**

**Subject / Paper** : **English -1**

**Class.** : **BBA 1st Semester**

| **Month** | Topics to be covered |
|---|---|
| **July** | Basic Grammar – Tense, Forms of the Verb, |
| **August** | Preposition, Articles, Punctuation, Single Word for a Group of Words, Sentence Construction, (unit test -I) |
| **September** | Single Word for a Group of Words, Sentence Construction, Comprehension.<br>)Business Manners- Body Language, Gestures, Telephone etiquette, E-mail etiquette.<br>(unit test ) , (unit test -II) |
| **October** | Prose Home coming Dr. Tapati Dey<br>2. The Lighthouse Keeper of Aspinwall –Henry Sienkiewicz<br>3. Ilyas-Leo Tolstoy ( unit test -III) |
| **November** | Prose -<br>Social Media- Dr.Sujata Chakravorty<br>2. World of Advertising- Dr.Pranjali Kane (unit test -IV)<br>3. OYO -Reinventing Hospitality |
| **December.** | Business Letter Writing- Enquiries and replies, Placing and fulfilling orders , Complaints and follow-up letters , Sales letters, Circular letters, Application for employment and Resume. |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree M Patil **Dept.: BBA**

Subject / Paper : Evolution of Business Class.: BBA I Sem

| MONTH | TOPIC TO BE COVERED |
|---|---|
| JULY | Industrial revolution, rise of European Business, Impact of FWW, The great Depression, SWW on International business. |
| AUGUST | Cold World War, OPEC crises, Gulf War –Impact on International Business. Dawn of IT Era & its impact on Business & Economy. |
| SEPTEMBER | Indian business: Changes & Styles, Development of Banking and Railways in India Indian economy and Business during WWI & WWII, Independence &Industrial Planning 1947-1960, Liberalisation Of Indian Economy 1990s<br>Class test |
| OCTOBER | Role of Industries in economic development, Factor of Industrial Location Webers Theory of Industrial location, Iron & steel Industries India & USA |
| NOVEMBER | Major Industrial regions of the world and India.<br>Viva-voce, examination |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Naitika A. Band **Dept.: BBA**

Subject / Paper : Aptitude Development-I Class.: BBA I Sem

| MONTH | TOPIC TO BE COVERED |
|---|---|
| JULY | |
| AUGUST | Verbal Ability- Introduction Of part of Speech, What is Noun, Rules & Application, Definition of Pronoun, Examples, Verb, Tense, Examples, Adjectives, Kinds of Adjectives, Adverb, Preposition, Interjections, Examples, Conjunction, Examples. |
| SEPTEMBER | Quantitative Aptitude I- Missing Number, Mixture & Allegation- Proportion & Mixtures in Percentage, Time & Work, Chain Rule, Pipes & cistern. Time & distance, different problems, Time & Speed & Tides, Non-verbal Reasoning, Problems, Mirror Image, Paper Cutting & Folding. |
| OCTOBER | Logical Reasoning- Coding & Decoding, series missing numbers, odd one out, cause effect, Direction & Ranking, Blood relations, syllogism, Assumption, Premise, and Conclusion, Assertions and Reasoning, Resume writing and LinkedIn profiles. |
| NOVEMBER | Data Interpretation- Table Charts, Line Charts, Pie Charts, Tabular Form, Missing Data Interpretation. |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

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<br>Practical Classes for Tally |
| December | Ratio Analysis in Tally, Data storage and backup in Tally. UNIT TEST 4 |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Dr. Pravin Rewatkar Dept.: BBA

Subject / Paper : Fundamentals of Managerial Effectiveness Class.: BBA 1st Sem

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| 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 |

HOD/Co-ordinator
BBA Department
N.M.V. Ka

## PROFORMA OF TEACHING PLAN- 2023-24

**To be submitted to the Teacher Appraisal Committee**

**Name of Teacher** : **Prof. Jitendra G.Alone**

**Department** : **BBA**

**Subject / Paper** : **English-2**

**Class.** : **BBA 2nd Semester**

| month | Topics to be covered |
|---|---|
| **December** | Prose -<br>The Dispenser of Holy Water- Guy de Maupassant |
| **January** | Prose -<br>After Twenty Years-O.Henry<br>The Wall- Dr.Sunilkumar Navin - (Unit Test –I) |
| **February** | 1.Beware, You are Being Tracked!- Dr.Supantho Bhattacharya<br>2.What is integrity? Subroto Bagchi -(Unit Test –II) |
| **March** | 3. Unsung Women Achievers of Contemporary India-Dr.Subhashree Mukherjee<br>-(Unit Test –III) |
| **April** | Subject-Verb-Agreement / Concord of Nouns, Pronouns and Possessive Adjectives<br>• Spotting errors and rewriting sentences correctly.<br>• Synonyms & Antonyms , Words often confused -(Unit Test –IV) |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

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. |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree M Patil Dept.: BBA

Subject / Paper : Sociology Class.: BBA II Sem

| MONTH | TOPIC TO BE COVERED |
|---|---|
| December | Sociology – Meaning and Definitions, Characteristics of Sociology as a science, Relationship of sociology with sociology, anthropology, history, political science, psychology |
| January | Structural aspects of social system – Groups : Primary and secondary groups, their characteristics, importance in individual life, In- Groups,out groups and reference groups<br>Class test |
| February | Culture & society– Meaning and elements, Meaning & characteristics of culture, material & non material culture, Culture Lag<br>Elements of culture, beliefs, values, norms |
| March | Socialisation- definition & meaning ,Process of socialisation, agents of socialisation, Stages of socialisation.<br>Viva-voce, examination |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree M Patil Dept.: BBA

Subject / Paper : Environmental Studies Class.: BBA II Sem

| MONTH | TOPIC TO BE COVERED |
|---|---|
| December | Introduction to Environment Management: Definition, Scope importance, Need for public awareness, sustainable development. Natural Resources- renewable and non- renewable resources, role of individual in conservation of natural resources( Forest, water, land, energy, mineral), Environment Pollution: Types of pollution- air, water, soil, noise, thermal and Nuclear, causes effect and control measures |
| January | Global warming, green house effect, Ozone layer depletion, Acid rains, Human Population: Global population growth, variations among nations, Population explosion- causes and impact<br>Class test |
| February | Family welfare Programs-methods of sterilization; Infectious diseases, water related diseases, risk due to chemicals in food, Cancer and environment, Social Issues in Environment: Construction of dams: problems and concerns of resettlement, rehabilitation of affected people |
| March | Environmental ethics– issues and possible solutions, resource consumption patterns and need for equitable utilization; Equity disparity in western and eastern countries; Urban and rural equity issues; Need for gender equity.<br>Viva voce , Examination |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree M Patil **Dept.: BBA**

Subject / Paper : Organisational Behaviour Class.: BBA III Sem

| MONTH | TOPIC TO BE COVERED |
|---|---|
| JULY | Introduction to Organisational Behaviour ,meaning , its relevance in todays business environment. Challenges & opportunities for OB. |
| AUGUST | Foundation & factor influencing individual behaviour.<br>Learning , Classical conditioning, operant conditioning, social theories |
| SEPTEMBER | Personality : meaning, determinants of personality, personality traits<br>Attitude : meaning, importance, components & types<br>Perception : nature, importance, process, perceptual errors<br>Class test |
| OCTOBER | Motivation : meaning, types<br>Theories of work motivation by – Maslow, Herzberg, Vroom and Porter, Lawler<br>Leadership : nature, theories, styles |
| NOVEMBER | Group Dynamics: types, group development, theories, norms & roles<br>Group cohesiveness : introduction to conficts, types of conflicts and conflict management style.<br>Viva-voce, examination |

HOD/Co-ordinator
BBA Department
N.M.V. Katol

**NABIRA MAHAVIDYALAYA, KATOL**

**PROFORMA OF TEACHING PLAN- 2022-23**

**To be submitted to the Teacher Appraisal Committee**

**Name of Teacher** : **Prof. Jitendra G. Alone**

**Department** : **BBA**

**Subject / Paper** : **Managerial Economics**

**Class.** :**BBA 3rd Semester**

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| Month | Topics to be covered |
|---|---|
| **July** | Introduction to Economics, concept of managerial economics. Nature and Scope, Types of Economies – Capitalist, socialist, and mixed economies. - (Unit Test –I) |
| **August** | Concept of Utility, Types, Law of Diminishing Marginal Utility, Its application. Indifference Curve analysis, Consumer Choice Theories. Unit - (Unit Test –II) |
| **September** | Law of Demand, Exceptions and assumptions. Elasticity of Demand, Types, and its role in Managerial decision making, Demand forecasting, Techniques of Demand forecasting. - (Unit Test –III) |
| **October** | Laws of variable proportions and Return to scale. Isoquants and Isocost. Elasticity of substitutions; Cost concepts: Kind of costs, Short run and long run cost functions, Economies and Diseconomies of scale. |
| **November** | Concept of Market equilibrium and Revenue curves, Characteristics of different market structures, Price determination and firms equilibrium under perfect competition, - (Unit Test –IV) |
| **December** | monopolistic competition, oligopoly and monopoly, Price discrimination, pricing methods. |

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BBA Department
N.M.V. Katol

NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Naitika A. Band **Dept.: BBA**

Subject / Paper : Aptitude Development-II Class.: BBA III Sem

| MONTH | TOPIC TO BE COVERED |
|---|---|
| JULY | |
| AUGUST | Quantitative Aptitude II- Percentage & its shortcuts rules & applications, Ratio- Basic Concept of Ratio and Proportion, Partnership- Concepts, Rules & applications, Percentage Advanced Problems, HCF, LCM, Profit & Loss Shortcut Tricks. |
| SEPTEMBER | Direction Sense- Conditional Coding, Word-Pattern Coding, Chinese Coding, Direction Sense Test, Distance Test, and Shadow Based Questions. |
| OCTOBER | Problems on Cube and Dice, Data Sufficiency and their Problems, Cause & Effects. |
| NOVEMBER | Logical Sequence of Words, Antonyms and Synonyms, Venn Diagram, Verification of truth, Character Puzzles. |

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NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

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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NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree M Patil **Dept.: BBA**

Subject / Paper : Content Writing Class.: BBA III Sem

| MONTH | TOPIC TO BE COVERED |
|---|---|
| JULY | Concept of Content Writing & its relevance, Role and functions of CW |
| AUGUST | Print & web CW, scope and types of CW, principles & Processes of CW |
| SEPTEMBER | Processes of CW : getting the brief, ideating, researching, structuring, formatting, editing & proof reading<br>Class test |
| OCTOBER | Writing styles: Non-fiction, advertising newspaper, writing blogs, case studies, white papers.<br>Communications: writing for B2B, B2C,press releases, news letters |
| NOVEMBER | Plagiarism: Introduction , rules, techniques of writing plagiarism free content.<br>Viva-voce, examination |

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NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree M Patil **Dept.: BBA**

Subject / Paper : Principles of Operation Management Class.: BBA V Sem

| MONTH | TOPIC TO BE COVERED |
|---|---|
| JULY | Introduction to Operations Management, its Nature, Scope, Importance and Functions. Difference between production, manufacturing and service. |
| AUGUST | Concept and types of production, mass, job-based, batch and assembly line production system. Types of services<br>Factors affecting plant location, types of plant layouts –<br>product layout, process layout, fixed position layout, cellular layout, types of service layouts. |
| SEPTEMBER | Concept of production planning, definitions of capacities, master production schedule, material planning.<br>Introduction to maintenance.<br>Scope of materials management, Purchase and Stores Functions,<br>Class test |
| OCTOBER | 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. |
| NOVEMBER | 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.<br>Viva-voce, examination |

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NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree M Patil Dept.: BBA

Subject / Paper : Fundamentals of Human Resource Management. Class.: BBA IV Sem

| MONTH | TOPIC TO BE COVERED |
|---|---|
| December | Introduction, Nature, scope, Concept, importance & functions f HRM ; Human resource as an asset to organization. Evolution of HRM; Role of Human Resource |
| January | Concept and Introduction, Importance, process – methods of performance appraisal – Traditional & Modern Methods. Class test |
| 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. Viva-voce, examination |

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NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Jayashree M Patil Dept.: BBA

Subject / Paper : Indian Social Values & Business Ethics Class.: BBA IV Sem

| MONTH | TOPIC TO BE COVERED |
|---|---|
| December | Meaning, definition, importance of values, sources of value system, types, values, loyalty and ethical behaviour, values across cultures |
| January | Respect for elders, hierarchy and status, need for security, non violence, cooperation, simple living high thinking, rights and duties, relevance of values in management, attitudes and beliefs<br>Class test |
| February | Definition, importance, arguments for and against Business Ethics, types of ethical issues, Gandhian approach in management and trusteeship, business ethics and moral obligations, ethics in work life |
| March | Introduction, mechanics and systems of corporate governance, Indian model of corporate governance, OECD principles, world bank on corporate governance, McKinsey Survey on corporate governance.<br>Viva-voce, examination |

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NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Dr. Pravin Rewatkar Dept.: BBA

Subject / Paper : Fundamentals of Financial Management Class.: BBA 4th Sem

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| Month | Topics to be covered |
|---|---|
| December | Introduction to Business Finance and Financial Management UNIT Test 1 |
| January | Sources of Finance and Cost of Capital UNIT TEST 2 |
| February | Financial Planning, Financial Statements |
| March | Dividend Decisions, Walter and Gorden Model UNIT TEST 3 |
| April | Different methods of selecting dividend decisions UNIT TEST 4 |

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NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Pravin Rewatkar Dept.: BBA

Subject / Paper : Research Methodology Class.: BBA 5th Sem

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| 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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NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

Name of Teacher : Prof. Pravin Rewatkar Dept.: BBA

Subject / Paper : Fundamentals of Business Finance Class.: BBA 6th Sem

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| 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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NABIRA MAHAVIDYALAYA, KATOL

PROFORMA OF TEACHING PLAN- 2023-24

To be submitted to the Teacher Appraisal Committee

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. |

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**NABIRA MAHAVIDYALAYA, KATOL**

**PROFORMA OF TEACHING PLAN- 2023-24**

**To be submitted to the Teacher Appraisal Committee**

**Name of Teacher** : **Prof. Jitendra G.Alone**

**Department** : **BBA**

**Subject / Paper** : **Fundamentals of Marketing management**

**Class** :**BBA 4th Semester**

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| Month | Topics to be covered |
|---|---|
| **December** | Evolution of Marketing concept, Concept of Need, Want and Demand, Value and Satisfaction, Marketing environment, Introduction to Marketing mix. (Unit Test –I) |
| **January** | Market segmentation- importance and Bases for segmentation; Market Targeting- various targeting strategies; Positioning, De-positioning and Repositioning (Unit Test –II) |
| **February** | Product classifications, Product mix, Product line strategies; Product life cycle; Packaging and Labelling, Pricing methods and strategies (Unit Test –III) |
| **March** | Distribution channels: types, importance. Channel intermediaries: wholesalers and retailers, Promotion mix (Unit Test –IV) |
| **April** | Introduction to Personal selling, Advertising, Sales Promotion, Public Relations and Publicity |

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**NABIRA MAHAVIDYALAYA, KATOL**

**PROFORMA OF TEACHING PLAN- 2023-24**

**To be submitted to the Teacher Appraisal Committee**

**Name of Teacher** : **Prof. Jitendra G. Alone**

**Department** : **BBA**

**Subject / Paper** : **Fundamentals of Financial Management**

**Class.** : **BBA 4th Semester**

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| Month | Topics to be covered |
|---|---|
| **December** | Meaning and significance of business finance, relationship of finance with other disciplines. Meaning of financial management, objectives of financial management, scope of financial management, organization of financial management function, emerging role of finance manager; Financial needs (Unit Test -I) |
| **January** | Type of sources of finance: long term and short term. Cost of capital: Cost of equity, cost of preference, cost of debt, cost of retained earnings, calculation of weighted average cost of capital. Unit (Unit Test -II) |
| **February** | Financial Planning – Introduction, Financial Forecasting, Profit Planning, Projected Financial Statements, (Projected Balance Sheet and Projected Income Statements). (Unit Test -III) |
| **March** | Dividend: meaning and importance, types of dividends, factors affecting dividend decisions, dividend and value of firms, (Unit Test -IV) |
| **April** | dividend policy evaluation, Calculation of value of shares using Walters Model, Gordon's Model, & MM Approach. (Unit Test -V) |

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**NABIRA MAHAVIDYALAYA, KATOL**

**PROFORMA OF TEACHING PLAN- 2023-24**

**To be submitted to the Teacher Appraisal Committee**

**Name of Teacher** : **Prof. Jitendra G. Alone**

**Department** : **BBA**

**Subject / Paper** : **Entrepreneurship Development**

**Class.** : **BBA 5TH Semester**

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| 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 –I) |
| **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 –II) |
| **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 –III) |
| **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 –IV) |

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**NABIRA MAHAVIDYALAYA, KATOL**

**PROFORMA OF TEACHING PLAN- 2023-24**

**To be submitted to the Teacher Appraisal Committee**

**Name of Teacher** : **Prof. Jitendra G. Alone**

**Department** : **BBA**

**Subject / Paper** : **International Business Environment**

**Class.** : **BBA 5TH Semester**

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| 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 -I) |
| **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 -II) |
| **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 III) |
| **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 IV) |

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BBA Department
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**NABIRA MAHAVIDYALAYA, KATOL**

**PROFORMA OF TEACHING PLAN- 2023-24**

**To be submitted to the Teacher Appraisal Committee**

**Name of Teacher** : **Prof. Jitendra G. Alone**

**Department** : **BBA**

**Subject / Paper** : **Advance Financial Management**

**Class.** : **BBA 6th Semester**

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| 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 I) |
| **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 II) |
| **February** | Mutual Funds – Organization Structure, Classification of Funds –Types of Funds – Equity Funds, Debt Funds, Liquid Funds, Balanced Funds, Monthly Income Plans, (UNIT TEST III) |
| **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 IV) |

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N.M.V. Katol

**NABIRA MAHAVIDYALAYA, KATOL**

**PROFORMA OF TEACHING PLAN- 2023-24**

**To be submitted to the Teacher Appraisal Committee**

**Name of Teacher** : **Prof. Jitendra G.Alone**

**Department** : **BBA**

**Subject / Paper** : **Fundamentals of Marketing Management**

**Class.** : **BBA 6th Semester**

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| Month | Topics to be covered |
|---|---|
| **December** | Integrated Communication Mix (IMC) -meaning, importance; Communication meaning, importance, process, communication mix-components, role in marketing, (UNIT TEST –I) |
| **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). (UNIT TEST –II) |
| **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, (UNIT TEST –III) |
| **April** | Promotion of services, Placing or Distribution methods of services, Service vision & Strategies: Includes Advertisements, Branding, Packaging of Services. (UNIT TEST –IV) |

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N.M.V. Katol

Department of Management Studies
Nabira Mahavidyalaya, Katol, Dist. Nagpur

# TIME TABLE

Room No. 303

w.e.f.: 17th August 2023

MBA - I (Semester - I)

Academic Year 2023-24

| Day / Time | 10 am to 11 am | 11 am to 12 noon | 12 noon to 1:20 pm | 1:20 pm to 1:45 pm | 1:45 pm to 2:45 pm | 2:45 pm to 3:45 pm | 3:45 pm to 4:30 pm |
|---|---|---|---|---|---|---|---|
| Mon | Managerial Economics (PSM) | Legal & Business Environment (AAJ) | Business Statistics & Analytics for Decision Making (ASD) | R E C E S S | Managerial Skills for Effectiveness (ASC) | PERSONALITY DEVELOPMENT (HLV) | READING IN LIBRARY |
| Tue | Managerial Economics (PSM) | Legal & Business Environment (AAJ) | Business Statistics & Analytics for Decision Making (ASD) | | Managerial Skills for Effectiveness (ASC) | GROUP DISCUSSION (ASD) | |
| Wed | Managerial Economics (PSM) | Legal & Business Environment (AAJ) | Business Statistics & Analytics for Decision Making (ASD) | | Managerial Skills for Effectiveness (ASC) | MANAGEMENT GAME (PSM) | |
| Thu | Organizational Behavior (ASC) | Management Information Systems (HLV) | Financial Reporting, Statement & Analysis (PSM) | | Business Research (ASD) | PRESENTATION (AAJ) | COMPUTER LAB |
| Fri | Organizational Behavior (ASC) | Management Information Systems (HLV) | Financial Reporting, Statement & Analysis (PSM) | | Business Research (ASD) | ROLE PLAY (ASC) | |
| Sat | Organizational Behavior (ASC) | Management Information Systems (HLV) | Financial Reporting, Statement & Analysis (PSM) | | 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. Sunilkumar Navin)
Principal

Principal
Department of Management Studies,
Nabira Mahavidyalaya, Katol

Department of Management Studies
Nabira Mahavidyalaya, Katol, Dist. Nagpur

# TIME TABLE

Room No. 304

w.e.f.: 28th August 2023

MBA - II (Semester - III)

Academic Year 2023-24

| Day / Time | 10 am to 11 am | 11 am to 12 noon | 12:20 pm to 1:20 pm | 1:20 pm to 1:45 pm | 1:45 pm to 2:45 pm | 2:45 pm to 3:45 pm | 3:45 pm to 4:30 pm |
|---|---|---|---|---|---|---|---|
| Mon | Digital and Social Media Marketing **(ASD)** | Sales & Distribution Management **(ASC)** | Project Appraisal & Finance **(PSM)** | R E C E S S | Strategic Management **(HLV)** | Manpower Planning, Recruitment & Selection **(AAJ)** | Performance Measurement System **(ASC)** |
| Tue | Digital and Social Media Marketing **(ASD)** | Sales & Distribution Management **(ASC)** | Project Appraisal & Finance **(PSM)** | | Strategic Management **(HLV)** | Manpower Planning, Recruitment & Selection **(AAJ)** | Performance Measurement System **(ASC)** |
| Wed | Digital and Social Media Marketing **(ASD)** | Sales & Distribution Management **(ASC)** | Project Appraisal & Finance **(PSM)** | | Strategic Management **(HLV)** | Manpower Planning, Recruitment & Selection **(AAJ)** | Performance Measurement System **(ASC)** |
| Thu | Investment Analysis & Portfolio Management **(PSM)** | Compensation and Benefits Management **(ASD)** | Financial Derivatives **(AAJ)** | | Integrated Marketing Communication & Brand Management **(ASC)** | **COMPUTER LAB** | **READING IN LIBRARY** |
| Fri | Investment Analysis & Portfolio Management **(PSM)** | Compensation and Benefits Management **(ASD)** | Financial Derivatives **(AAJ)** | | Integrated Marketing Communication & Brand Management **(ASC)** | | |
| Sat | Investment Analysis & Portfolio Management **(PSM)** | Compensation and Benefits Management **(ASD)** | Financial Derivatives **(AAJ)** | | Integrated Marketing Communication & Brand Management **(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) | | |

**(Dr. Pradip S. Mahajan)**
**Time Table Incharge**

**(Dr. Sunilkumar Navin)**
**Principal**

Principal
Department of Management Studies,

Department of Management Studies
Nabira Mahavidyalaya, Katol, Dist. Nagpur

# TIME TABLE

## (Room No. 303)

w.e.f.: 08th January 2024

**MBA - I (Semester - II)** — **Academic Year 2023-2024**

| Day / Time | 10 am to 10.45 am | 10.45 am to 11.45 am | 11.45 am to 12 noon | 12 noon to 12.45 pm | 12.45 pm to 1:30 pm | 1:30 pm to 2:00 pm | 2.00 pm to 4.30 pm |
|---|---|---|---|---|---|---|---|
| Mon | International Business **(ASC)** | Cost Accounting **(PSM)** | R E C E S S | Operations Management **(AAJ)** | CSR & Sustainability **(HLV)** | R E C E S S | **Bajaj Finserv Training Program** |
| Tue | International Business **(ASC)** | Cost Accounting **(PSM)** | | Operations Management **(AAJ)** | CSR & Sustainability **(HLV)** | | |
| Wed | International Business **(ASC)** | Cost Accounting **(PSM)** | | Operations Management **(AAJ)** | CSR & Sustainability **(HLV)** | | |
| Thu | Human Resource Management **(HLV)** | Financial Management **(AAJ)** | | Marketing Management **(ASC)** | Management Case Analysis **(PSM)** | | |
| Fri | Human Resource Management **(HLV)** | Financial Management **(AAJ)** | | Marketing Management **(ASC)** | Management Case Analysis **(PSM)** | | |
| Sat | Human Resource Management **(HLV)** | Financial Management **(AAJ)** | | Marketing Management **(ASC)** | Management Case Analysis **(PSM)** | | |

| Name of Faculty Member | Abbreviation | Name of Faculty Member | Abbreviation |
|---|---|---|---|
| | | | |
| Dr. Hitesh Vaswani | (HLV) | Dr. Atul Charde | (ASC) |
| Dr. Pradip Mahajan | (PSM) | Dr. Adil Jiwani | (AAJ) |

**(Dr. Pradip S. Mahajan)**
**Time Table Incharge**

**(Dr. S. K. Navin)**
**Principal**

Principal
Department of Management Studies,
Nabira Mahavidyalaya, Katol.

Department of Management Studies
Nabira Mahavidyalaya, Katol, Dist. Nagpur

# TIME TABLE
## (Room No.206)

w.e.f.: 05th January 2024

**MBA - II (Semester - IV)** — **Academic Year 2023 - 2024**

| Day / Time | 10 am to 10.45 am | 10.45 am to 11.45 am | 11.45 am to 12 noon | 12 noon to 12.45 pm | 12.45 pm to 1:30 pm | 1:30 pm to 2:00 pm | 2.00 pm to 4.30 pm |
|---|---|---|---|---|---|---|---|
| Mon | Retail Sales Management & Services Marketing **(AAJ)** | Managing Banks and Financial Institutions **(HLV)** | R E C E S S | Skill Development **(ASC)** | Project Guidance **(Respective Guide)** | R E C E S S | **Bajaj Finserv Training Program** |
| Tue | Retail Sales Management & Services Marketing **(AAJ)** | Managing Banks and Financial Institutions **(HLV)** | | | | | |
| Wed | Retail Sales Management & Services Marketing **(AAJ)** | Managing Banks and Financial Institutions **(HLV)** | | | | | |
| Thu | Managing Banks and Financial Institutions **(PSM)** | Team Dynamics **(ASC)** | | Training and Placement Activity **(AAJ)** | | | |
| Fri | Managing Banks and Financial Institutions **(PSM)** | Team Dynamics **(ASC)** | | | | | |
| Sat | Managing Banks and Financial Institutions **(PSM)** | Team Dynamics **(ASC)** | | | | | |

| Name of Faculty Member | Abbreviation | Name of Faculty Member | Abbreviation |
|---|---|---|---|
| | | | |
| Dr. Hitesh Vaswani | (HLV) | Dr. Atul Charde | (ASC) |
| Dr. Pradip Mahajan | (PSM) | Dr. Adil Jiwani | (AAJ) |

**(Dr. Pradip S. Mahajan)**
**Time Table Incharge**

**(Dr. S. K. Navin)**
**Principal**

Principal
Department of Management Studies,
Nabira Mahavidyalaya, Katol.

# Department of Management Studies, Nabira Mahavidyalaya, Katol
## Tentative Teaching Plan - Academic Session 2023-24

**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 | *Organisational Behaviour*: 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 2023-24

**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 2023-24

**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<br>**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 2023-24

**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<br>**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 2023-24

**Name of Professor: Dr. Adil Jiwani** **Course: M.B.A. Sem: I** **Subject: Business Research**

| Sr. No | Month | Unit | Topics | Remarks |
|---|---|---|---|---|
| 1. | December | I | Theory Building and Research Proposal - Meaning and nature of Theory, Nature of proposition, Scientific Method, Verifying Theory, Inductive and Deductive Reasoning, Nature of business, problem, importance of problem definition, the process of problem definition, research questions, and research objectives | |
| 2. | January | II | Sampling Design - Census and Sample Survey, Implication of Sample Design, Steps in Sample Design, Sampling Procedure, Different Types of Sampling Designs, How to select a random sample, Random sample from infinite universe, Sample size calculation. | |
| 3. | Jan/Feb | III | Measurement and Scaling Techniques - Measurement in research, Measurement Scales, Source of errors in measurement, Test for sound measurement, Techniques for developing measurement tools, Scaling - Meaning, Scale classification bases, Important Scaling Techniques | |
| 4. | Feb/March | IV | Methods of Data Collection - Collection of Primary Data (Observation, Interview, Questionnaire, Schedules), Other methods of data collection, Collection of Secondary Data | |
| 5. | March | V | Interpretation and Report Writing - Meaning and Techniques of Interpretation, Significance and Steps of Report Writing, Layout of research reports, types of reports, Mechanics and Precautions for writing a research report. | |

Dr. Adil Jiwani

# Department of Management Studies, Nabira Mahavidyalaya, Katol
## Tentative Teaching Plan - Academic Session 2023-24

**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 | IV | 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 | V | 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 2023-24

**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 2023-24

**Name of Professor: Dr. G. Khorgade Course: M.B.A. Sem: III Subject: Business Statistics and 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 2023-24

**Name of Professor: Dr. ATUL S CHARDE** **Course: M.B.A. Sem: III** **Subject: SALES AND DISTRIBUTION MANAGEMENT**

| Sr. No | Month | Unit | Topics | Remarks |
|---|---|---|---|---|
| 1. | August | I | **Introduction to Sales Management -** Definition and meaning, Objectives, Sales Research, Sales Forecasting, | |
| 2. | August | I | Sales Forecasting methods, Sales Planning and control: Goal setting, | |
| 3. | August | I | Performance measurement, diagnosis and corrective actions, Estimating market and Sales Potentials | |
| 4. | August | II | **Sales Organisation –** Setting up a sales organization, Personal Selling, Management of Sales force, | |
| 5. | September | II | Recruitment & Selection, Training, Motivation and Evaluation, | |
| 6. | September | II | Compensating Sales Force, Territory Management, Sales Budget, Sales Quota. | |
| 7. | September | III | **Physical Distribution –** Definition, Importance – participants in physical | |
| 8. | September | III | distribution process - Different forms of channels - Functions of Marketing Channels, Unconventional channels - Channel Intermediaries | |
| 9. | October | III | Wholesaling and Retailing , Channels for Consumer goods, Industrial Goods & Services – Integrated Marketing Channels – | |
| 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 2023-24

**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 2023-24

**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 | |
| 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 2023-24

**Name of Professor: Dr. ATUL S CHARDE** **Course: M.B.A. Sem: III** **Subject: Performance Measurement System**

| Sr. No | Month | Unit | Topics | Remarks |
|---|---|---|---|---|
| 1. | August | I | *Introduction to Performance Management:* Concept – Performance appraisal, Performance Management, | |
| 2. | August | I | Performance management system, Objectives and functions of Performance Management system, Linkage of Performance Management to strategic planning. | |
| 3. | August | I | *Process of Performance Management: Introduction to* Performance Management Process, Performance Management Planning Process, | |
| 4. | August | II | Mechanism of Performance Management Planning and Execution. | |
| 5. | September | II | *Performance Appraisal:* Definitions & Objectives of PA and Characteristics of PA, Importance, Advantages & Disadvantages of PA, Process of PA, Pitfall of PA, | |
| 6. | September | II | Achieving effective PA, Methods of PA, *Performance Appraisal Methods:* Performance Appraisal | |
| 7. | September | III | Models for Assessing Performance-Balance score card; Objectives and process of Performance | |
| 8. | September | III | Performance management linked with reward systems. Building a High Performance culture-Performance Management & Employee Development. | |
| 9. | October | III | Ethics in Performance Appraisal: Ethics – An Overview, Ethics in Performance Management, | |
| 10. | October | IV | Principles of ethical performance management Ethical issues and dilemmas in performance 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 2023-24

**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:** | |

Pradyan

**Signature of Faculty**

# Department of Management Studies, Nabira Mahavidyalaya, Katol
## Tentative Teaching Plan - Academic Session 2023-24

**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<br>**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 2023-24

**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 | IV | 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 | V | 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 2023-24

**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 | IV | 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 | V | 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 2023-24

**Name of Professor: Dr. Hitesh L. Vaswani  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<br>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 2023-24

**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 2023-24

**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 2023-24

**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 2023-24

**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<br>**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 2023-24

**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.<br>**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 2023-24

**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 2023-24

**Name of Professor: Dr. Adil A. Jiwani** **Course: M.B.A.** **Sem: II** **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<br>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 2023-24

**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 2023-24

**Name of Professor: Dr. Hitesh L. Vaswani** **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 2023-24

**Course: MBA Sem: IV**

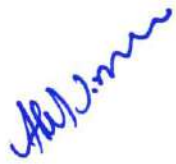
**Name of Professor: Hitesh Vaswani** **Subject: Managing Banks & Financial Institutions**

| 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 2023-24

**Name of Professor: Dr. Adil A. Jiwani  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<br>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 2023-24

**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 Analyis; 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

## Review of Syllabus Complition

Sem. 1st & Sem 3rd - 2023-24

| Sr. No. | Subject | Name of Teacher | % of Syllabus Completed | Signature |
|---|---|---|---|---|
| 1. | Managerial Economics | Dr. P. S. Mahajan | 100% | |
| 2. | Legal & Business Environment | Dr. A. A. Jiwani | 100% | |
| 3. | Business Statistics & Analytics for Decision Making | Dr. G. K. Khorgade | 90% | |
| 4. | Managerial Skills for Effectiveness | Dr. A. S. Charde | 100% | |
| 5. | Organizational Behaviour | Dr. A. S. Charde | 100% | |
| 6. | Management Information Systems | Dr. H. L. Vaswani | 90% | |
| 7. | Financial Reporting, Statement & Analysis | Dr. P. S. Mahajan | 100% | |
| 8. | Business Research | Dr. A. A. Jiwani | 100% | |

## IIIrd Sem.

| Sr. No. | Subject | Name of Teacher | % of Syllabus Completed | Signature |
|---|---|---|---|---|
| 1. | Digital & Social Media Marketing | Dr. P. S. Mahajan | 95% | |
| 2. | Sales & Distribution Management | Dr. A. S. Charde | | |
| 3. | Project Appraisal & Finance | Dr. P. S. Mahajan | 100% | |
| 4. | Strategic Management | Dr. H. L. Vaswani | 90% | |
| 5. | Manpower Planning Recruitment & Selection | Dr. A. A. Jiwani | 95% | |
| 6. | Performance Measurement System | Dr. A. S. Charde | 88% | |
| 7. | Investment Analysis & Portfolio Management | Dr. P. S. Mahajan | 100% | |
| 8. | Compensation and Benefits Management | Dr. H. L. Vaswani | 90% | |
| 9. | Financial Derivatives | Dr. A. A. Jiwani | 100% | |
| 10. | Integrated Marketing Communication & Brand Management | Dr. A. S. Charde | 100% | |

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# Department of Management Studies

Nabira Mahavidyalaya, Katol

## Review of Syllabus Completion

Sem. 2nd & Sem 4th - 2023-24

| Sr. No. | Subject | Name of Teacher | % of Syllabus Completed | Signature |
|---|---|---|---|---|
| 1. | International Business | Dr. A. S. Charde | 90 % | |
| 2. | Cost Accounting | Dr. P. S. Mahajan | 100 %. | |
| 3. | Operations Management | Dr. A. A. Jiwani | 100 %. | |
| 4. | CSR & Sustainability | Dr. H. L. Vaswani | 90 % | |
| 5. | Human Resource Management | Dr. H. L. Vaswani | 80 % | |
| 6. | Financial Management | Dr. A. A. Jiwani | 100 %. | |
| 7. | Marketing Management | Dr. A. S. Charde | 100 % | |
| 8. | Management Case Analysis | Dr. P. S. Mahajan | 90 %. | |

## IVth Sem.

| Sr. No. | Subject | Name of Teacher | % of Syllabus Completed | Signature |
|---|---|---|---|---|
| 1. | Retail Sales Management & Services Marketing | Dr. A. A. Jiwani | 90 %. | |
| 2. | Managing Banks and Financial Institutions | Dr. H. L. Vaswani | 90 % | |
| 3. | Team Dynamics | Dr. A. S. Charde | 90 % | |

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# Nabira Mahavidyalaya Katol

PROFORMA OF CLASS WISE TEACHING PLANE 2023-24

To be submitted to the Teacher, Appraisal Committee in the 1st week of the session

Name of the Teacher : 1) Dr. Tejsiha L. Jagdale

2) Mr. Amitkumar P. Khandekar

Department : Physical Education & sports

| Month | Class /Subject/ Paper | Topic to be covered |
|---|---|---|
| July | Arts:<br>Commerce :-<br>Science :- | |
| August | Arts:- Physical Training Classes<br><br>Commerce :-Introduction of<br>Science :- Yoga | Drill Marching / Games Practice Kabaddi, Kho-Kho, Cross Country, Preparation of 15th Aug.<br>Asanas and Pranayama |
| September | Arts:- Physical Training Classes<br><br>Commerce :- Yogasan Practical Class<br>Science :- | Games Practice, Handball,Kabddi,Kho-Kho ( Men and Women) |
| October | Arts:- Physical Training Classes<br>Commerce :-<br>Science :- | Games Practice- Kabddi ,Kho-Kho, Ball-Badmiton, Boxing. Volleyball (Men Women) |
| November | Diwali Vacation<br><br>Arts:- Physical Training Classes | Diwali Vacation<br><br>Games Practice- Ball-Badminton, Yogasan, Hand-Ball, Volleyball (Men/Women) |
| December | Arts:- Physical Training Classes<br>Commerce :- Yogasan Practical Class<br>Science :- Yogasan Practical Class | Games Practice- Ball-Badminton, Yogasan, Boxing, (Men/Women) |
| January | Arts:- Medical/ Physical Test<br>Commerce :- Medical/ Physical Test<br>Science :- Medical/ Physical Test | Games Practice- Boxing, Yogasan, Volleyball (Men/Women) |
| February | Arts: Physical Training Classes.<br>Commerce :- Physical Training Classes.<br>Science :- Physical Training Classes. | Games Practice.<br>All Games |

| | | |
|---|---|---|
| March | Record Preparation of Medical and Physical Test. Record<br>Incentive Marks / Dues List | |
| April | Stock verification record<br>Incentive mark | |

Amitkumar P. Khandekar
Programme officer
National Service Scheme
Nabira Mahavidyalaya, Katol.

# Nabira Mahavidyalaya Katol

Department of Physical Education and Sport

Action Plan 2023 – 2024

| Sr. No. | Month | Activity |
|---|---|---|
| 1 | July | Office Work / Enrollment of Players |
| 2 | August | Independence Day, All Games Practice |
| 3 | September | Inter college Tournament Preparation, Inter collegiate Kabaddi (MEN), Kho- Kho (Men/Women) |
| 4 | October | Ball- Badminton (Men, Women). Zone ,Semifinal and final Tournament will be arranged. |
| 5 | November | Arrange Yoga and Pranayama Shibir , |
| 6 | December | Arrange Physical Test |
| 7 | January | Blood Donation camp, Republic Day |
| 8 | February | Arrange Medical Test |
| 9 | March | Preparation of Physical and Medical Test Report |
| 10 | April | Submission of incentive Mark |

for

Dr. Tejsiha Jagdale
Department of Physical Education & Sports

Dr. Tejsiha L. Jagdale
Asst. Professor
Dept. of Physical Education
Nabira Mahavidyalaya, Katol.

# NABIRA MAHAVIDYALAYA – KATOL

## PHYSICAL EDUCATION DEPARTMENT

## TIME TABLE FOR THE YEAR 2024 – 2025

## ( 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, Rugby |
| 4 | Thu. | Cross Country | B.Sc. - II | Admin. Work | B.A. – II A | B.A. – II B | B.Com. -II | Hand Ball | Athletics, Wood- Ball |
| 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, Wood-Ball |

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

# NABIRA MAHAVIDYALAYA – KATOL

## PHYSICAL EDUCATION DEPARTMENT

## TIME TABLE FOR THE YEAR 2024 – 2025

## (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, Rugby |
| 2 | Tue. | Cross Country | B.Sc. - II | Admin. Work | B.A. – II A | B.A. – II B | B.Com.- II | Kho-Kho Volley- Ball | Table Tennis Boxing |
| 3 | Wed. | Yogasan | B.Sc. - I | Admin. Work | B.A. – I A | B.A. – I B | B.Com.- I | Kho-Kho Volley-Ball | Athletics , Wood-Ball |
| 4 | Thu. | Cross Country | B.Sc. - II | Admin. Work | B.A. – II A | B.A. – II B | B.Com. -II | Hand Ball | Kabaddi, Rugby |
| 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, Wood-Ball |

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