Programme out comes, and course outcomes for B. A.

B.A. students will be able to

- 1) Students explain, learn to write basic concepts and can evaluate the creative work done by various authors, writers and thinkers with well understanding of concept.
- 2) Develop positive approach for writing, reading and learning ability.
- 3) Develop creative writing, poetry, short act etc. with criticism mind.
- 4. Ready to face the competitive examinations as MPSC, UPSC etc.
- 5. Develop communication skills in various languages as National language Hindi and International language English also other regional languages. Obtain the knowledge of good literature of various authors.
- 6. Participate in debate, elocution competition, poetry, reciting one act play, storytelling etc.
- 7. Develop artistic approach, sensitive mind, responsible personalities, social awareness, confidence and leadership development.
- 8. Create close relation with society by social media as mobile, internet, you tube etc.
- 9. Develop research attitude through PPT.

Washi Washi Washi Washi Dist. Osho

I/C Principal

Karmaveer Mamasaheb Jagdale

Mahavidyalaya, Washi.

Programme out comes, and course outcomes for B.M. & B. Com.

B.Sc. Students will be able to

- 1. In science trim priority areas are Physics, Chemistry, Mathematics, Zoology, Botany, and Computer science in which student can explain, evaluate and understand theories, assumptions, logic and reality.
- 2. Develop scientific attitude, practical approach, aptitude research ability, positive approach with practical temperament.
- 3. Develop effective communication skill for better understanding of subject.
- 4. Develop and present their various scientific creation through experiments, Projects, models, PPT, diagrams, graphs etc.
- 5. Develop and cultivate innovative approach towards scientific instrumental changes and applications to analyze science concept.
- 6. Design new instruments for getting efficient result and correct data.
- 7. Create interest in applicable research toward various subjects.
- 8. Enhance their techniques and presentation skills in projects, experiments, technology etc.

B. Com. Students will be able to

- 1. This programe could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc.,
- 2. To meet the well trained manpower requirements.
- 3. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Selling Manager, Over all Administration abilities of the Company.
- 4. Develop practical approach, aptitude research ability, positive approach with practical temperament
- 5. Develop research attitude through PPT.
- 6. Ready to face the competitive examinations as MPSC, UPSC etc.

I/C Principal Karmaveer Mamasaheb Jagdale Mahavidyalaya, Washi.

Muis

Programme Outcomes - B. Sc.

- 1. Students acquire knowledge to extract information and solve problems in systematic manner.
- 2. Students acquire scientific attitude in the fields of physical, chemical, material, life and mathematical sciences.
- 3. Graduate students acquire skills to handle basic scientific instruments.
- 4. Students acquire scientific abilities like problem solving approach, data collection, logical thinking and decision making.
- 5. Students get aware of sustainable technology development.
- 6. Students get eligible for appearing to the competitive examinations.
- 7. The programme prepares learners for post-graduation and higher education

Programme Specific Outcomes B.Sc. (PHYSICS)

Physics Student graduating with B.Sc in Physics are able to

- 1. Demonstrate knowledge of selected topics from mechanics, Heat, Thermodynamics, optics etc and apply this knowledge to analyze a broad range of physical phenomenon.
- 2. Learn the concept of Quantum mechanics, relativity introduced at degree level in order to understand nature at atomic level.
- 3. Demonstrate proficiency in mathematical and mathematical concepts needed for a proper understanding of physics.
- 4. Learn the structure of solid material and their different physical properties.
- 5. Learn Laboratory skills, helping them to take measurement in a physics laboratory and analyze the measurement to draw valid conclusions.
- 6. In order to understand and learn the concept of fibre optics and nonconventional energy sources introduced at degree level.

Course Outcomes

B.Sc. Physics

1. F. Y. B. Sc. Physics

101- Paper No I: Mechanics, properties of matter and sound

- 1. To familiarize students with basic concepts of Mechanics.
- 2. To have deep understanding of Newton's laws of gravitation and their applications.
- 3. To understand the concepts of viscosity and elasticity thoroughly.
- 4. To understand the phenomena of surface tension and its applications.
- 5. To understand the concept of ultrasonic and acoustics effectively.
- 6. To enable students to solve numerical problems involving topics covered.

102- Paper No II: Heat and Thermodynamics

- 1. Understand the concept of thermal conductivity and its application.
- 2. Understand the concept of real gases and transform phenomena
- 3. Enable students to understand the laws of thermodynamics and thermodynamic processes.
 - 4. Study the concept of entropy thoroughly.
 - 5. Study heat engines and their efficiency.
- 6. Enable to solve numerical problems involving topics covered.

Semester II

104- Paper No IV: Geometrical and Physical Optics

- 1. Familiarize students with basic concepts of optics.
- 2. Have deep understanding of cardinal points of optical system.
- 3. Understand the concept of interference thoroughly.
- 4. Enable students to summarize the phenomena of diffraction and polarization.
- 5. Enable to solve numerical problems involving topics covered.

105- Paper No V: Electricity and Magnetism

- 1. To understand the basic concepts and laws in electrostatics.
- 2. To study the basic concepts and laws in dielectrics.
- 3. To get knowledge of the basic concepts and laws of magnetism.
- 4. To understand the basic concepts of Transient current.
- 5. To enable students to solve numerical problems involving topics covered

2. S. Y. B. Sc. Physics Semester III

201- Paper No VII: Mathematical, Statistical Physics and Relativity

- 1. To familiarize students with the mathematical methods used in physics.
- 2. To familiarize students with the vector algebra.
- 3. To get acquaintance with the differential equations.
- 4. To familiarize students with partial differential equations.
- 5. To familiarize students with Classical and quantum Statistics.
- 6. To understand the concepts of special theory of relativity.
- 7. To apply these mathematical methods to solve problems in physics.

202- Paper No VIII: Modern and Nuclear Physics

- 1. To familiarize students with basic properties of nucleus.
- 2. To have deep understanding of radioactivity and its applications.
- 3. To familiarize students with nuclear forces and elementary particles.
- 4. To understand construction and working of various particle accelerators and detectors.
- 5. To understand construction and working of photoelectric effect.
- 6. To study different photoelectric cells.
- 7. To enable students to solve numerical problems involving topics covered.

Semester IV

205- Paper No XI: General Electronics

- 1. To familiarize students with the basic electronic components.
- 2. To understand the concept of semiconductors.
- 3. To have deep knowledge about semiconductor devices.
- 4. To familiarize with the transistor circuits and there characteristics.
 - 5. To understand oscillators and multivibrators.
 - 6. To understand the process of modulation and demodulation.
- 7. To solve numerical problems involving topics covered.

206- Paper No XII: Solid state Physics

- 1. To familiarize students with basic concepts of structure of solids.
- 2. To familiarize with various types of characterization techniques.
- 3. To understand the concept of bonding and band theory of solids deeply.
- 4. To understand the transport properties thoroughly.
- 5. To enable students to solve numerical problems involving topics covered.

3. T. Y. B. Sc. Semester V

301- Paper No XV: Classical and Quantum Mechanics

- 1. To understand the mechanics of the system of particles.
- 2. To understand d'Albert, principle, Langranges Equation and its application.
- 3. To familiarize students with the historical background of Quantum Mechanics.
- 4. To understand the wave function and its physical interpretation clearly.
- 5. To familiarize with the time dependent and time independent Schrodinger equations and their applications.
- 6. To familiarize students with various operators used in Quantum Mechanics.
- 7. To enable students to solve numerical problems involving topics covered

302- Paper No XVI: Electrodynamics

- 1. To familiarize students with various differential operators to study the Gauss law.
- 2. To familiarize with basic concepts and equations related to time varying fields such as Faradays law, Len's law etc.
- 3. To write expression for poynting vectors for electromagnetic waves.
- 4. To enable to to write wave equations.
- 5. To solve numerical problems involving topics covered.

Semester VI

305- Paper No XIX: Atomic, Molecular Physics and LASER

- 1. To familiarize students with conceptual development of atomic model.
- 2. To understand one or two valence electron systems deeply.
- 3. To understand Zeeman effect, paschan back effect, Stark effect.
- 4. To understand Molecular Raman Spectroscopy.
- 5. To have deep introduction to lasers.
- 6. To familiarize students with different types of laser.
- 7. To understand construction and working of various types of lasers.
- 8. To be aware with various applications of lasers.
- 9. To enable students to solve numerical problems involving topics covered.

306- Paper No XX: Non-conventional Energy sources and Optical Fibers

- 1. To introduce students with various types of renewable energy sources.
- 2. To familiarize students with various applications of solar energy.
- 3. To familiarize students with various applications of biomass energy.
- 4. To familiarize students with the wind mechanics.
- 5. To create awareness among students about energy conservation.
- 6. To familiarize students with optical fibers.
- 7. To familiarize students with various applications of optical fibers.
- 8. To enable students to solve numerical problems involving topics covered.

Washi + Washi + P

Dr. Ravindra V. Kathare
Professor & Head,
Department of Physics, K.M.J.M.
Washi, Dist. Osmanabad

MMa

Shri Shivaji Shikshan Prasarak Mandal, Barshi's

Karmaveer Mamasaheb Jagdale Mahavidyalaya, Washi

Tal - Washi Dist - Osmanabad

Course Outcomes for B. Sc. Mathematics

B. Sc. I

MAT 101 Differential Calculus

- 1. Understand the geometrical interpretation of derivative of a function,
- 2. Find the derivatives of hyperbolic functions and implicit functions,
- 3. Find the nth derivative of standard functions and solve problems on the same,
- 4. Find the value of nth derivative at a particular point,
- 5. State and prove mean value theorems.
- 6. Apply mean value theorems to find nature of graphs of the functions and approximate values,
- 7. Understand the partial differentiation and its rules,
- 8. Understand and solve problems on Euler's theorem on homogeneous functions,
- 9. Find and apply the directional derivatives of scalar and vector point functions,
- 10. Solve problems on divergence, curl and gradient.

MAT 102 Differential Equations

- 1. Find the order and degree of a differential equation and recognize the difference between general, particular and singular solutions,
- 2. Identify the exact differential equation,
- 3. Apply various methods to solve a linear differential equations with constant coefficients,
- 4. Reduce the linear differential equations with variable coefficients to linear differential equations with constant coefficients and solve it,
- 5. Solve exact differential equation of order n,
- 6. Solve system of simultaneous ordinary differential equations,
- 7. Define a partial differential equation,
- 8. Eliminate arbitrary constants and arbitrary functions to obtain a partial differential equation.

MAT 201 Integral Calculus

- 1. Understand the meaning of integration as a limit of a sum,
- 2. Derive reduction formulae and use them to solve particular integrals,
- 3. Integrate the rational functions,
- 4. Integrate trigonometric functions with integer power,
- 5. Apply integration to find area of a random region (formed by a curve and tow coordinate axes),

ashi *

Head Dept of Math
Karmveer Mamassheb Jagdale
Mahavidyalaya Washi Ta.Washi
Dist.Osmanabad

प्रभारी प्राचार्य कर्मवीर मामासाहेब जनदाळे जहाविद्यालय, वाशी.

Part F

6. Apply integration to find the length of a curve between two points.

MAT 202 Geometry

- 1. Recognize and find the equation of a plane satisfying given conditions,
- 2. Find the equation of the plane in a given system,
- 3. Find the distances between two geometric objects like a point and a plane, a line and a plane etc.,
- 4. Find the angle between two lines and two planes,
- 5. Find the equation of a straight line satisfying the given conditions,
- 6. Understand the co-planarity of two lines,
- 7. Recognize the various forms of equation of a sphere and find the equation of a sphere under given conditions and calculate its centre and radius,
- 8. Differentiate between the central conicoids and find their equations under given conditions,
- 9. Check the condition tangency of a plane to sphere, cone, cylinder and conicoid, find the equation of the tangent plane and find the point of contact.

B. Sc. II

MAT 301 Number Theory

- 1. Solve numerical using division algorithm,
- 2. Find the greatest common divisor of sufficiently large numbers using Euclidean algorithm,
- 3. Recognize a solvability and obtain all the solutions of a Diophantine equation,
- 4. State and prove the fundamental theorem of arithmetic,
- 5. Understand the use of congruence theory and solve problems on Chinese remainder theorem,
- 6. Find the values of number theoretic functions
- 7. Understand the properties of the number theoretic functions,
- 8. Understand the relations among the number theoretic functions.

MAT 302 Integral Transforms

- 1. Define Beta and Gamma functions and represent them in different forms,
- 2. Apply properties of Laplace transforms to evaluate Laplace transforms of standard functions,
- 3. Apply properties of inverse Laplace transforms to evaluate inverse Laplace transform of standard functions,
- 4. Apply Laplace transforms and inverse Laplace transforms to solve linear ordinary differential equations,

5. Define Fourier transforms and find Fourier transforms of standard functions.

Head Dept of Math

Karmveer Mamasaheb Jagdale; Mahavidyalaya Washi Ta.Washi

DistOsmanabad

MAT 303 Mechanics I

- 1. Find the resultant of any number of forces acting on a particle,
- 2. Find the resolved parts of forces acting on a particle and solve numerical on the same,
- 3. State the condition of equilibrium of two forces acting on a particle,
- 4. State the necessary and sufficient condition for any number of forces to in equilibrium,
- 5. Define the moment of force and find the same for parallel forces and couples,
- 6. Solve the problems on moment of force,
- 7. Define and find the centre of gravity of some uniform bodies,
- 8. Solve simple problems on centre of gravity.

MAT 401 Numerical Methods

- 1. Obtain the approximate solution of a linear and transcendental equation up to a desired accuracy,
- 2. Understand the differences and apply interpolation formulae to solve problems,
- 3. Apply approximate linear or non-linear function that fits a given data,
- 4. Apply numerical methods of linear algebra in real life problems,
- 5. Obtain an approximate solution to differential equations whose analytic solution is not known.

MAT 402 Partial Differential Equations

- 1. Define partial differential equation and know the difference between ordinary and partial differential equations,
- 2. Solve Lagrange's differential equation,
- 3. Understand complete and particular integrals, and use Charpit's method to solve a non linear partial differential equation,
- 4. Solve linear partial differential equations of order one with constant coefficients,
- 5. Solve linear partial differential equations of order two by Monge's method and transformations method.

MAT 403 Mechanics II

- Understand the difference between kinematics and kinetics of a particle. Find the Cartesian components, tangential and normal components and radial and transverse components of velocity and acceleration,
- 2. Understand the laws of conservation of momentum and energy, work done in conservation and non conservative field of force,
- 3. To apply the knowledge of motion in non-resisting and resisting medium of projectile in practical situations,
- 4. To find the maximum range, time of flight and maximum height attained by a projectile,
- 5. Understand the equation of central orbit and pedal equations of standard curves.

प्रभारी प्राचार्य कर्मवीर मामासाहेब ज्यादावे महाविद्यालय, वाशी.

Washi & Washi & Solomando

Head Dept of Math Karmveer Mamasaheb Jagdala, Mahavidyalaya Washi Ta.Washi Dist.Osmanabad

MAT 501 Real Analysis I

- 1. Understand the basic notion sets and its elements and able to decide whether an element is in a given set or not, also find the least upper bound for a given set, if it exists.
- 2. Perform various operations on sets,
- 3. Define real valued functions, one to one correspondence between two sets.
- 4. Recognize convergence and divergence of a sequence and compute the limit of convergent sequence,
- 5. Explain properties of monotone sequences, bounded sequences and results on these sequences,
- 6. Define and understand Cauchy criterion,
- 7. Define and compute convergence and divergence of series of real numbers,
- 8. Apply tests for absolute convergence on a given seies,
- 9. Compute Jacobian of given functions using the properties of Jacobians,
- 10. State and prove the necessary and sufficient condition to vanish,
- 11. Understand the functional dependence and find the relation among the dependent functions.

MAT 502 Abstract Algebra I

- 1. Define sets, mappings and integers and understand the properties of them,
- 2. Define groups and provide examples of the groups,
- 3. State and prove some standard results derived from the definition of group,
- 4. Define subgroups and understand the criteria to be satisfied by the subgroups,
- 5. Define normal subgroups and quotient groups and demonstrate their properties,
- 6. Prove that a given mapping between two groups is homomorphism and automorphism,
- 7. Define rings and derive its elementary properties,
- 8. Derive results on ideals, quotient rings.

MAT 504 Ordinary Differential Equations I

- 1. Define complex numbers and understand its algebra and geometric representation,
- 2. Define functions, polynomials, complex series, exponential functions and determinants and state their properties,
- 3. State and prove existence and uniqueness theorem for the solution of first order homogeneous and non homogeneous differential equation,
- 4. Define linear differential equation of higher order,
- 5. State and prove existence and uniqueness of solution of second order linear differential equation with constant coefficients,
- 6. Define initial value problem for second order linear differential equation,

Head Dept of Math Karmveer Mamasaheb Jagdale, Mahavidyalaya Washi Ta.Washi Dist.Osmanabad प्रभारी प्राचार्य कर्मवीर मामासाहेब जगदावे महाविद्यालय, वाशी. 7. Define linear dependence and independence of functions and very the same using Wronskian.

MAT 601 Real Analysis II

- 1. Understand the of distance between two abstract notions like distance between two sequences, prove a given space is metric space, extend the continuity of a function to a general metric space, formulate continuity in terms of open and closed sets,
- 2. Understand and recognize the connectedness, completeness and compactness of a given metric space, check the continuity on these metric spaces,
- 3. Understand the concept of Riemann integration, recognize the Riemann integrable functions and evaluate the integration of such functions, prove the fundamental theorems of integral calculus,
- 4. Define which functions may be expanded as Fourier series and find the Fourier series of the such functions, deduce the convergence of some important series using Fourier series.

MAT 602 Abstract Algebra II

- 1. Define vector space and subspace and produce examples of it,
- 2. Derive elementary results and theorems using definitive axioms,
- 3. Define homomorphism and prove or disprove given mapping is homomorphism,
- 4. Explain linear dependence and independence, linear span and basis,
- 5. Understand and find the dimension of a vector space and prove results on finite dimensional vector spaces,
- 6. Define dual spaces and solve problems on the same,
- 7. Define inner product spaces and give some of its examples,
- 8. Define orthonormal sets and explain Gram Smidth orthogonalization process.

MAT 604 Ordinary Differential Equations II

- 1. Define initial value problem and its solution,
- 2. Define Wronskian and prove linear dependence of functions,
- 3. Reduce the order of a linear differential equation,
- 4. Solve the initial value problem,
- 5. Solve the Legendre's equation,
- 6. Define sugualarity and singual points,
- 7. Recognize and solve Euler's and Bessel equations.

Head Dept of Math Karmveer Mamasaheb Jagdale, Mahavidyalaya Washi Ta.V/ashi Dist.Osmanabad

प्रभारी प्राचार्य विर मामासाहेब जगदाळे महाविद्यालय, वाशी

Karmaveer Mamasaheb Jagdale Mahavidyalaya, Washi Department of Commerce

PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES, COURSE OUTCOMES

Mechanism of Communication:

The College has clearly stated learning outcomes of the Programs and Courses. The following mechanism is followed by the institution to communicate the learning outcomes to the teachers and students.

- Hard Copy of syllabi and Learning Outcomes are available in the departments for ready reference to the teachers and students as per university norms.
- The importance of the learning outcomes has been communicated to the teachers in every IQAC Meeting and College Committee Meetings and necessary steps has been under taken for the improvement in outcomes.

Course outcomes for all Courses:

Department of Commerce					
	B.Com				
Programme Outcome	This programme could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Selling Manager, Over all Administration abilities of the Company.				
Programme Specific Outcome	The students should possess the knowledge, skills and attitudes during the end of the B.com degree course. By virtue of the training they can become an Manager, Accountant, Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government jobs etc.,				
Course	Outcomes				
Financial Accounting-I The course aims at acquiring the students with the emerging issues in business, Trade and Commerce regarding record maintaining and presenting the accounting and financial f					
Business and Industrial	This course is meant to acquaint the students with the				
Economics	principles of Business economics as are applicable in business.				
Entrepreneurship Development-I	On successful completion of this subject the students should have Knowledge on the meaning conveyed by the word 'Business', understand the various forms of business, types of business and impact of various aspects on business				

environment.	
The purpose of this course is to be develop the skill among the	
students about preparing an organizations account	
To provide knowledge and information about Statistical	
Applications. To create skill and ability among students for using	
the Statistical Methods, Tools, Techniques by using I.T. devices.	
The course aims to provide basic knowledge to the students abou	
the organisation and management of a business enterprise.	
The paper aims to combine the fundamental concepts of	
Business communications	
To provide knowledge and information about	
Entrepreneurship. To provide knowledge and create ability fo	
setting up an enterprise within given Environment.	
To enable the students to be aware on the Corporate	
Accounting in conformity with the provision of the	
Companies Act. Objectives: After the successful completion	
of the course the student should have a thoro knowledge or	
the accounting practice prevailing in the	
Corporate.	
To keep the students conversant with the ever – enlarging	
frontiers of Cost Accounting knowledge.	
The paper imparts understanding of the concepts and various	
application issues of Computer concepts like Internet	
infrastructure, security over internet, payment systems and	
various online strategies for e- business.	
To provide understanding of indirect Taxes including	
Rules pertaining thereto and their application to different	
business situations. To understand principles underlying the	
GST. To understand basic concepts of GST. The aim of the Project week in the concepts of the Project week in the concepts of the Project week in the concepts of the concepts	
The aim of the Project work is to acquire practical knowledge	
on the implementation of the Marketing studied. Enable the	
student to understand the Principles of marketing management, market segmentation Product life cycle,	
pricing, branding etc.	
To enable the students to be aware on the Corporate	
Accounting in conformity with the provision of the	
Companies Act. Objectives: After the successful completion	
of the course the student should have a thoro knowledge on	
ule accounting practice prevailing in the corporate	
10 keep the students conversant with the ever - enlarging	
Tronuers of Cost Accounting knowledge	
The paper imparts understanding of the concents and various	
application issues of Computer concents like Internet	
infrastructure, security over internet payment systems and	
various offfine strategies for e- business	
To provide understanding of indirect Taxes including	
Trains pertaining inergin and their application to 1:00	
business situations. T	
business situations. To understand principles underlying the GST. To understand basic concepts of GST.	

Management Advanced Financial	TL. 1
Accounting.	The objective of this course is to equip the students with the ability to analyze, interpret and use Financial accounts in Business Enterprises.
Management Accounting.	Business Enterprises. The objective of this course is to equip the students with the ability to analyze and interpret accounting information in managerial decision making. This Student is expected to have a good working knowledge of the subject. This course provide the student an understanding of the application of management accounting techniques.
New Auditing Trends-I Banking & Insurance-I	the students to know about the Auditing Procedure.
barrang & msurance-i	To familiarize students with banking and practice of banking. To equip the students with the knowledge of modern banking. To develop employability of students in banking, financial and other economic sectors.

Department of Commerce K.M.J.Mahavidyalaya Washi Dist.Osmanabad

I/C Principal Karmaveer Mamasaheb Jagdale Mahavidyalaya, Washi.

<u></u> 2)	4 11-Histology, Anatomy & 4-2074
2 Learn few representative of fassil forms.	
1) The Student will leave about the smuture of sepont coston sciented sps. of and byophthes of the nonespoons.	3 V Diversity of company
s) understand various modifications & its purpos	
2) Learn about vegetable & reproductive struct	
C	2 I Morphology of Anglaspeams B-2056
3) They will know the economic values of this Lower crowp of plant community.	
2) Learn about the importance of the Plant diversity	
1) The students will able to understand the skurture trep of contain selected agastring,	incusity of copplogums-I
	Course of the code
sammes offered by Departmen	Louise Outcomes of

	8 XM - pront physiology	5 5	6. X- Plant Ecology	IX-Taxonomy of Angiospoms	Sz. Name of the course	
(Transaction to all the state of the state	1) The students will learn about absorption towns lation + United and othermine of water and othermine	1) know the characters of Gymnasporms 2) The Students will understand the use of Plant resources to produce valuable products. 3) Be enlightened about the opportunities to income 4 employment generation. 4) To be able to develop the ability to tunk of create useful plant products.	1) The students will understand the basic concepts of general geology earlogy & Phytogeography. 2) leave a about the analyse & basic principles of Ecology. 3) understand the imp of ecology & conservation	1) comprehend the concepts of Plant takenomy. N-2031 2) Learn about various Angiasperms families ? its economic value.	code course outames	

Siotechnology	NUIL(A)-Diversity of Angiosperms-I	9 XVIII - CEN BIMOGY and Molecular Bilhogy	Sy Name of the course
	•		course code
Dunderstand the basic concept of membelian Genetics. Its variation of applications. 2) Have a basic understanding of the plant genetic transformation methods. 3) The students will understand the basic concept of genome organization in plants. B. 2	The conceptual development of texonomy to yetem asico- worderstand the phylogeny of anglosperns the general account of the origin of Anglosperns and learn the wide activities in anglosperns trends in classification.	bosic of cell 4 their inclusions. By the end of this course students will able to moderational aspects. The functional aspects. The functional aspects. The functioning of the cell of the election the functioning of the cell of the molecular level. Som understand the properties of nucleic Acids.	course outcomes.

	N. M. Salar	. 2	200
•		Angiosporms-I	Name of the course
AC Principal			Course code.
Washi ba Washi bagdi Karmveer Mamasaheb Jagdi Karmveer Mamasaheb Jagdi	M.J.M	UKTOW HE Floral variation in analises their Phyloge onglispermic families their Phyloge tenolWinners from the numbers of anglospornic pla asknow the methods of pollination of fertilization,	

IC Frincipal Karenaveer Mamasaheb Jagdale Mahavidyalaya, Washi.



Mahavidyalaya Washi Ta.Wa Dist.Osmanapad

Shri Shivaji Shikshan Prasark Mandal Barshi's

Karmaveer Mamasahaeb Jagdale Mahavidyalaya, Washi (Course Outcome)

Sr. No.	Class	Paper	Outcome
1		Paper I Inorganic Chemistry	 Students will able to understand Structure of atom, various atomic properties like ionization potential, atomic size, electron affinity, electronegativity etc.in the groups and across the periods. 2. S-block and P-block elements in the periodic table.
2		Paper II Organic Chemistry	 Students will able to understand General and basic ideas associated to structure, bonding, stereochemistry and reactivity of organic molecules. Fundamental of mechanism of organic reactions. General idea and chemical reactivity of alkane, alkenes and alkyl and aryl halides. Aromaticity and electrophilic reactions of benzene.
3	B. Sc. I	Paper IV Physical Chemistry	 Student understand mathematical parameters like logarithm derivative integration probability graph representation etc. Understanding the surface phenomenon's like Adsorption, mechanism of adsorption, factors affecting Adsorption, difference between adsorption and absorption types of adsorption is important etc. Deduction of Gas Laws: Boyles Law, Charles Law, Grahams Law of diffusion, Avogadro's hypothesis, deviation from ideal behavior, van der Waals equation of state. Types of catalyst and order of reaction. Difference between solids, liquids and gases state. Classification, structure of nematic and cholestric phases. Understanding laws of crystallography and X-ray diffraction by crystals. Derivation of Bragg equation. Definition of colloids, classification, properties and applications of colloids.

9	Paper X Inorganic Chemistry Paper XI Physical Chemistry	Carnot Theorem. Concept of Entropy, Gibbs and Helmholtz. Understanding the concept of Free Energy, Law of Mass Action, Le Chatelier's Principle, Clausius-Clapeyron Equation and its Application. Students will able to understand Features, electronic configuration and general properties of first transition series elements like color, oxidation state etc. Werner's co-ordination theory, nomenclature of coordinate compounds, formation of complexes based on VBT. Chemistry of Lanthanides and actinides Theories of acids and bases and reactions in nonaqueous solvents. Students will able to understand Understanding the concept Phase Rule Equation, Phase Equilibria of the one and two Component System with Example. Raoult's Law and Henry's Law. Ideal and Non-Ideal system. Lower and Upper Consulate Temperature. Types of Conductance, variation of equivalent and specific conductance with dilution. Kohlrausch's law. Ostwald's Dilution Law. Transport Number: Definition, Determination by Hittorfs Method and Moving Boundary Method. Types of Titration. Types of Reversible Electrodes. Nernst Equation, Types of electrode, Electro-Chemical Series and its significance. Buffer-Acidic and Basic Buffers, Mechanism of Buffer Action. Types of corrosion.
10	&XII Lab Course	 Annual system (practical outcomes) Study the Gravimetric Estimation of Zn,Mn, Ni, Ba and Al. Understanding the Complexometric Titration of Zn, Ni, Cu and Pb. By using indicator. To study the instrument of Conductometer, pH-meter,

· Art. 1.

			 Colorimeter Polarimeter and refractive meter. To prepared Organic Derivatives likes Acetyl, Benzoy Hydrolysis, Bromo, Reduction and Osazone Derivatives.
			 The organic estimations of Estimation of nitro group by reduction. Estimation of glucose.
1		Paper XIII Physical Chemistry	 Estimation of ester and amides by hydrolysis. Study Black body radiation, Planck's radiation law, photoelectric effect, Compton effect. De Broglie Hypothesis. Heisenberg's uncertainty principles, Harmiltonian operator, Schrödinger wave equation and its importance. Understanding the concept electromagnetic radiation, regions of the spectrum, basic features of different spectrometers, statement of the born-oppenheimer approximation. Rotational Spectrum and numerical problems. Study laws of photochemistry, Grothus - Drapper law, Stark-Einstein law, Jablonsiki diagram. Quantum yield and its types.
12	B. Sc.	Paper XIV Organic Chemistry	 Understanding the Nano-materials and synthesis methods. Students will able to understand Detailed study of NMR spectroscopy, structure determination of organic compounds using NMR, IR and UV techniques. Chemical reactions of organometallic compounds like G.R, organozine and organolithium compounds. Synthetic applications of active methylene groups ethyl aceto acetate and diethyl malonate. Chemistry of fats, oils and detergents.
13	III	Paper XVI Inorganic Chemistry	 Students will able to understand Crystal field theory and it's basic concepts, splitting of dorbitals in octahedral, tetrahedral and square planar complexes, factors affecting CFT. Types of electronic transitions, selection rules for d-d transition, energy level diagrams. Nomenclature and classification of organometallic

		 compounds, preparation and properties. Essential and trace elements in biological processes, biological role of Na+ and K+, nitrogen fixation. Classification of chromatographic techniques, ascending, descending techniques, TLC applications.
14	Paper XVII Organic Chemistry	 Synthesis of heterocyclic compounds, electrophillic and nucleophillic reactions of heterocyclic compounds. Comparison of basisity of pyridine, piperidine and pyrrole. Introduction and classification of carbohydrates open and ring structure of glucose, mechanism of mutarotation and polysaccharides. Classification and synthesis of synthetic polymers, properties of polymers, introduction to synthetic rubber and it's uses. 4. Color and constitution of dyes, synthesis of dyes. Classification, synthesis of drugs. Properties of ideal drug.
15	Paper XV &XVIII Lab Course	 Annual system (practical outcomes) Semi-micro qualitative analysis, organic and inorganic quantitative analysis skills. Separation of Ca and Ni from binary mix. and estimation of Ni gravimetrically. Estimation of Cl in given sample of bleaching powder. Estimation of Vit.C, ascorbic acid, carbonyl group. Organic preparation and it's purity by TLC. Conductometric, PH metric and potentiometric titrations. Determination of interfacial tension, standard free energy change.

Head Dept of Chemistry Karmveer Mamasaheb Jagdale, Mahavidyalaya Washi Ta.Washi Dist.Osmanabad



I/C Principal

Karmaveer Mamasaheb Jagdale

Mahavidyalaya, Washi.



SHRI SHIVAJI SHIKSHAN PRASARAK MANDAL, BARSHI'S

KARMAVEER MAMASAHEB JAGDALE MAHAVIDYALAYA, WASHI

TAL - WASHI DIST - OSMANABAD

DEPARTMENT OF POLITICAL SCIENCE

Email id- polscikmjmw@gmail.com Telegram - KMJM, Washi Department of Political Science



Programme Specific Outcome

Sr.No.	Programme	Programme Objective	Programme Specific Objective
1	B.A. Political Science	Po1 - Critical thinkingtake informed action after identifying the assumption that frameif thinkingand actions.	PS1- Understandthe behavior of Indian and World Politics.
		Po2 - Effective communication speak, read, write and listen clearly in English and in one Indian language and makes meaning of theworld by connecting people, ideas, books, mdia and trchnology.	PS2 - Analysis basic concept of Political Science, Including physical and monetary issues of India.
		Po3 - Social Interaction: Elicit view ofothers, mediate, disagreements and help reach conditions in group setting	PS3 - Determine political veriables including inflation, unemployment, poverty.
2	M.A. Political Science	MA1 - The objective of this course is to introduce students to the meaning and nature of Political Science, debates as well as recent trends in the discipline.	MA1 - Course, meant for inter disciplinary students, focuses on varied themes relating to the Politics in India.
		MA2 - The objective seeks to make students understand the Social Science Research.	

Dr. A. S. Karade

Head Dept. of Political Scient Karmaveer Memacaheb Jegdalo Mahavidyalaya, Washi.

Dr. R. V. Kathare

I/C Principal

Karmaveer Mamasaheb Jagdale Mahavidyalaya, Washi.



SHRI SHIVAJI SHIKSHAN PRASARAK MANDAL, BARSHI'S

KARMAVEER MAMASAHEB JAGDALE MAHAVIDYALAYA, WASHI

TAL - WASHI DIST - OSMANABAD

DEPARTMENT OF POLITICAL SCIENCE

Email id- polscikmjmw@gmail.com Telegram - KMJM, Washi Department of Political Science



Facebook - polscikmjmw Whatsapp - 9423713624

Course Outcome

	0.51			Course Outcome
	Sr.No.		Paper Name	a) The outcome of this course is to introduce students to
	1	F.Y.B.A.	Basic Concept of Political Science	the meaning and nature of political theory, debates as well as recent theoretical trends in the disciplines.
1	3		Government & Politics in Maharashtra	a) The course outcomes is Introduction to the dynamic of the state politics in india. as such, it focuses on the study of the evolutionary nature of center-state relationship in the country after independence.
	2	S.Y.B.A.	Indian Government & Politics	a) The course outcomes is Introduction to the dynamic of the state politics in india. as such, it focuses on the study of the evolutionary nature of center-state relationship in the country after independence.
			International Relations	a) The course outcomes is Tried to address the core issues and highlight current concept in the field of international politics.
	3	T.Y.B.A.	Indian Political Thinker	a) The course outcomes is Indian Political Thinker and Social Workers thoughts, effect on Indian Society and Indian Poli, Socio, Edu, and Eco-Cultural and its informed to students.
			Western Political Thinker	a) The course outcomes is Western political thinkers and his ideologies, effective political toughts informed to student.
			Political Ideology	a) The course outcomes is The ideas serve as the foundation of political system. Therefore is an attempt at teaching student's world's great ideas which are broadly considered as political creeds usually termed political ideologies.
			Research Methdology	a) The course outcomes is To acquaint the students with the basic concept of research and to familiarize them with latest & scientific techniques and modern trends in social research.

4	M.A. Part - I	Political Theory	a) The course outcomes is of this course is to introduce students to the meaning and nature of political theory, debates as well as recent theoretical trends in the discipline.
		Theories of International Relations	a) The course outcomes is to introducing students to the theory and concepts of International Relations.
		Comparative Politics - Theoretical Perspective	a) The course outcomes is Impart instruction to the students about the government and constitutions along with political development across the countries in a comparative perspective.
		State Politics in India	of state politics in India. As such, it focuses on the study of the evolutionary nature of centre-state relationship in the country after independence. The course intends to familiarize the freshers in first semester with crucial aspects of the state politics in India.
		Modern Political Ideologies	a) The course outcomes is, The ideas serve as the foundation of political system. This course, therefore is an attempt at teaching students world's great ideas which are broadly considered as political creeds usually termed political ideologies: liberalism, conservatism, socialism, Marxism, etc.
		World Politics- Issues and Debates	a) The course outcomes is, The course tries to address the core issues and highlight current concepts in the field of International Politics.
b		Western Political Thought	a) The course outcomes is, Political thought occupies central position in the knowledge mechanism of political science, without which students cannot understand the theory debate, nor make an inquiry into the socio-political problems. In this direction this course will be helpful to them.
		Principles of Public Administration	a) The course outcomes is, to acquaint the students with the concept of Public Administration, its theories of management and organization and to imbibe its significance as a growing discipline.
5	M.A. Part - II	Research Methods in Social Sciences	a) The course outcomes is, to acquaint the student with the basic concepts of research and to familiarize them with latest & scientific techniques and modern trends in social research.

ð

Indian Political	a) The
Thought	Political thinkers and their political ideas
India's Foreign Policy	understand the meaning and changing nature of India's foreign policy. The course is concerned with basic approaches to the study of foreign policy and explain elements in the making of foreign policy.
Modern Trends in Political Theory	a) The course outcomes is the Paper provides the students with an overview of the current trends in political theory. Study of this paper will help the students gain insight into the divergent trends in the modern political theory
Constitutional Process in India	a) The course outcomes is helping the students know the constitution, understand its various provisions, rights and duties and dignity of every citizen. The emphasis is on secular values, liberty, equality, justice and fraternity.
Political Analysis	a) The course outcomes is the papers deals with key issues related to political theory. It seeks to familiarize the students with the ever on-going debate on the concepts like liberty, equality and a just social order from Liberal and Marxist perspectives. The paper also focuses on some modern analytical trends that claim to break a new ground in the study of political theory.
South Asia and The World	a) The course outcomes is the course seeks to make students understand the challenges facing the South Asian Region.
Dr. B. R. Ambedkar on Caste - A Study of "Annihilation of Caste"	a) The course outcomes is, Indian Caste ridden society has created unprecedented socio-political problems within the framework of parliamentary system. Impact of caste system has hamstrung the developmental process of Indian democracy. With this reference the course offers caste discourse initiated by Dr. B. R. Ambedkar that will certainly help students understand issues related to caste.

Dr. A. S. Karade

Hoad Dept. of Political Science Karmaveer Mamasaheb Jagdale Mahavidyalaya, Washi. Dr. R. V. Kathare

I/C Principal

Karmaveer Mamasaheb Jagdale Manavidyalaya, Washi.

Shri Shivaji Shikshan Prasarak Mandal Barsi's Karmveer Mamasaheb Jagdale Mahavidyalaya, Washi.

Department of Zoology.

- Programme Outcomes -

The students completing the B.Sc. programme successfully is expected to have following outcomes.

- 1. The students explains the basic principles, concepts in science.
- 2. Understanding the issues related to nature and environment.
- 3. To understand the practical applications of subject in day to day life.
- 4. Understanding the relationship of man with the environment to make life eco-friendly.

Program Specific Outcomes

Department of Zoology

Sr.No.	Name of the course	Course outcome
1.	Protozoa to Annelida (Z-101)	 Understand the knowledge of animal kingdom and taxonomic status of non-chordate. Understand the knowledge of parasitic pathogens, the diseases caused by them and how to control them.
2.	Cell Biology (Z-102)	 Understand the structure and functions of procaryotic and eucaryotic cell. Understand the cell cycle and process of mitosis and meiosis. To understand the role of cell organelles in living organizms. Understand the various parts of microscope and their mechanism.
3.	Arthropoda to Echinodermata (Z-201)	 The students understand the taxonomy and anatomy of Arthropods, molluscs and echinoderms. The students understand the
4.	Genetics I (Z-202)	 Understand the basic concepts of mendelian genetics and its variations. Understand the mendels work on genetics, Mendels laws and variations. Understand the various blood groups in man and their inheritance. The students understand the chromosomal sex determination in various animals.
5.	Vertebrate Zoology (Z-301)	 The students can understand the taxonomic classification of chordates. Understand the anatomy of few chordates and knows about the evolution of higher chordate animals from lower chordate animals.

		The students also understand the some behavioural aspects of amphibians, reptiles, birds and mammals.
6.	Genetics II (Z-302)	 The students understands the mechanism of protein synthesis and expression of genes through it. The students knows about the human genetics and various genetical diseases occurs due to genetical abnormalities, DNA finger printing technique. The students can understand the technique of manupulation of gene for human welfare.
7.	Biochemistry and Endocrinology (Z-401)	 Understands the various types of endocrine glands present in the human body. The students knows about the hormones and their role in the physiology, biochemistry, metabolism. The students also knows the hormonal deficiency, their effect on physiology, metabolism. The students understands the organic compounds, vitamins, enzymes and how they are essential to living organism.
8.	Ecology (Z-501)	 The students understands the basic concepts of ecology. The students understands the ecosystem, the biotic and abiotic factors of ecosystem and how they play a role in the ecosystem. Understands the community and the relationship of animals, plants and microbes. Understands basic concepts of nature.
9.	Evolution (Z-502)	The students understands the process of evolution during different era.

		 Understands the theories of evolution considering Darwinism and modern synthetic theory. Understands the adaptive features of the desert animals. Understands the modes of speciation, Isolating mechanism. Understands the adaptive features of aquatic vertebrates.
10.	Fishery Science-I (Z-601)	 The students understands the capture fishery in the country. The students understands the fresh water, brackish water and marine water fisheries in India. The students knows the basic knowledge about the fisheries and how it is utilized to start the fishery business i.e. how to capture the fishes, how to market it, how to preserve it.
11.	Fishery Science-II (Z-602)	 Understands the basic requirements essential for fish culture. The students acquires the knowledge about artificial pond construction, management of ponds, feeding of the fishes, fish diseases and how to control them. The students knows the techniques of artificial breeding and how to produce the seeds by using this technique. Understands the use of modern techniques in fish preservation, processing, fish by-products, storage of fish.

Washi K

Head Dept of Zoology
Karmveer Mamasaheb Jagdale,
Mahavidyalaya Washi Ta.Washi
Dist.Osmanabad

Eller of

Stor Shivaji Shikshan Prasarak Mandal Barshi's

KARMAVEER MAMASAHEB JAGDALE MAHAVIDYALAYA, WASHI

DIST. OSMANABAD

DEPARTMENT OF HISTORY

Students Learning Outcomes

Bachelor of Arts Degree

(BA in History)

The History Department Faculty has identified the specific outcomes of it's under graduate curriculum. The following are the Paper wise outcomes that we would like to see each History students. We are continuously and actively assessing our programme to ensure that these paper wise outcomes are being met.

Students who graduate with BA in history will be able to:

- ✓ Students shall be able to demonstrate thinking skills by analyzing synthesizing and evaluating historical information from multiple sources.
- ✓ Students will develop the ability to distinguish between fact and fiction while understanding that there is no one historical truth.
- ✓ Students will produce well-researched written work that engages with both primary sources and the secondary literature.
- ✓ Students will employ an informed familiarity with multiply culture.
- ✓ Students will employ a full range of techniques and methods used to gain historical knowledge.
- ✓ Students will develop an ability to convey verbally their historical knowledge.
- ✓ Students will demonstrate their understanding of cause and effect along with their knowledge of the general chronology of human experience.

Head Dept. of History

* Washi

200

I/C Principal
Karmaveer Mamasaheb Jagdale
Mahavidyalaya, Washi.

KARMAVEER MAMASAHEB JAGDALE MAHAVIDYALAYA, WASHI

DIST. OSMANABAD

DEPARMENT OF HISTORY

Paper Wise Course Outcomes

Bachelor of Arts Degree

(BA in History)

The History Department Faculty has identified the specific outcomes of it's under graduate curriculum. The following are the paper wise outcomes that we would like to see each history students. We are continuously and actively assessing our programme to ensure that these paper wise outcomes are being met.

* BA First Year:

- 1) Paper No I -Shivaji and His Time (1630 AD to 1818 AD):
 - > Understand the background and the inspiration behind the establishment of Swarajya.
 - Explain the reasons behind Chatrapati Shivaji's early conflicts with the regional lord and the outsiders.
 - > Know about the early conflicts of Chatrapati Shivaji with regional lords and outsider powers of Adil shahi and Mughal Empire.
 - > Know about the importance of ground coronation of Chatrapati Shivaji.
 - > Know about the administration system and its nature of Chatrapati Shivaji.
 - Access the Chattrapati Shivaji inversion of Karnataka.
 - > Understand the formation of welfare state during the Maratha rule.
 - Understand the industrial and agriculture aspects of Chatrapati Shivaji Regime.
 - Understand the administrative aspect of Swarajya.

2) Paper No II -History of Modern Maharashtra (1818 AD to 1905 AD) &

- ➤ Identify of nineteenth century early Maharashtra condition of Socio, Religious and Economic
- Understand the Early phase of British- administration, education, press & activities of Christian missionaries.

- Understand the early socio religious reformers- Balashastri Jambhekar. Gopal Hari Deshmukh, Mahatma Jyotiba Phule, M.G. Ranade, Gopal Ganesh Agarkar & Pandita Ramabai.
- Understand the early resistance to colonial rule-the condition of Ramoshi, Bhil & Koli uprising, outbreak of 1857 and Maharashtra, Revolt of Vasudev Balwant Phadke
- Understand the national movement of Maharashtra- the Bombay Association, Poona Sarvajanik Sabha, Indian National Congress-Maharashtrian leaders.
- > Identify the importance and Legacy of Freedom Movement.
- Distinguish the detail account of British Raj as well as its overall impacts on the Indian Society.
- > Evaluate the Renaissance, Religious and Social reforms movement in India.
- > Understand some of the early resistance to British rule.
- > Understand early political awakening in Indian Freedom Struggle.
- > Identify the social institutions of late ninetieth century.

3) Paper No III –History of the Marathas (1707 AD to 1818 AD)

- Understand the Transfer of power from Chatrapati to Peshawa- causes, Chatrapati Shahu, Balaji Vishwhanath
- ➤ Know about peshawa Bajirao First & expansion of Maratha power.
- > Understand the third battle of Panipat- Causes and consequences
- > Know about revival of Maratha power- Peshwa Madhavrao First.
- > Understand the Anglo- Maratha relations.
- > How to decline of the Maratha power Causes and consequences
- ➤ How to changes in the administrative system of Peshwa period- Social Structure, Position of women, religious life during the Peshwa Period & Judicial system.

4) Paper No IV – Twentieth Century of Maharashtra (1905 AD to 1960 AD)

- Identify of the freedom movement in 1905 to 1920- Surat split and its implication, revolutionary movement & role of Lokmnya Tilak indian national movement.
- Identify of the freedom movement in 1920 to 1947- Non Co-Operation movement, Civil Dis- obedience movement & quit India movement

- Understand of Smovements-: Non- Brahmin movement- Rajarshi Shaahu, Keshavrao Jethe & Dinkarrao Javalkar, Dalit Movement- V. R. Shinde, Dr. Babasaheb Ambedkar & Education- Karmaveer Bhaurao Patil & Panjabrao Deshmukh.
- Understand Hyderabad Freedom Struggle special reference to Marathwada region
- How to making of Maharasthtra

& BA Second Year:

- 5) Paper No V History of Early India (Up to 300 BC)
 - > Identify the various types of sources of Ancient Indian History
 - > Grasp the details of pre Historic Age of Indian History.
 - > Understand the about the cultural heritage of India during the Indus valley Civilization.
 - > Identify the importance and the legacy of Vedic period.
 - > Grasp the details of political development in India during Magadh Empire.
 - Perspective about the political development in India during Satvahan's and Gupta Empire
 - Understand about the political Development in India during Vardhan Dyansty and Vakatak Empire.

6) Paper No VI-History of Delhi Sultanate (1200 AD to 1526 AD)

- > Identity the various types of sources of Delhi Sultanate History.
- > Identify of Delhi Sultanate Political History a brief survey.
- > Understand the religious Policy, Central and Provisional administration and ruling classes in Delhi Sultanate
- > Understand the economic and social life in Delhi Sultanate
- > Identify the religious Cults in Delhi Sultanate.
- Know about Arts and Architecture of Delhi Sultanate

7) Paper No VII - History of India (1300 BC to 650 AD):

- > Identify the literary Archeological sources in Ancient India
- > How to political changes in Ancient India brief survey.
- Know about Socio- Economic Life in Ancient India.
- Understand the religious life in Ancient India.
- > How to develop of Arts and Architecture in Ancient India
- > Identify languages and literature in Ancient India.

8) Paper No VIII - History of Mughal India (1526 AD to 1757 AD):

- Identity the various types of sources of Mughal India.
- F Grasp the details of Medieval Age of Indian History.
- Understand the about the establishment of Mughal Empire in India under the leadership of Babar.
- ➤ Identify the conflict between Humayun and Sher Shaha about achieving the power.
- > Grasp the details of political development in India during age of Akbar.
- > Know about the Political Development in India during Jahangir and Shahajahan's era as a Golden Age.
- > Understand about the policy of Aurangzeb led to decline of Mughal Empire in India.
- > Understand about the importance and development in Administrative system during the Mughal period.
- > Identify the developments and union elegancy of art and architecture during the Mughal period.

* BA Third Year:

9) Paper No IX – Historiography

- ➤ Identify the meaning of history- Definition, Nature, Scope, Kinds of History, History as a Science & History as Arts.
- > Understand the history and other Branches of Knowledge.
- > Understand the classification of Sources.
- > Know about major trends in Indian history writing.
- > Understand the Modern Thinkers of history-Ranke, Hegel, Karl Marx & Toynbee
- > Know about major trends in Indian history writing.
- > How to use and abuse of history
- Grasp historical writing

10) Paper No X – History of Indian National Movement (1885 AD to 1947 AD)

- > Identify the Indian national movement to modern Indian time
- Understand the rise of nationalism causes and development in India.
- > Know about Indian National congress and national movement.
- > Understand the Revolutionary movement in India

- > Underst and the nationalist movement under the leadership Mahatma
 - Gan dhi -
- > Und ers and the Rise of Communalism leading, partition and independent of Iradia.

11) Paper No History of Modern China (1900 AD to 1950 AD)

- > Unders cand political and Economic conditions of China during first two decades of 20th century.
 - > Know about May 4th movement 1919 Causes, nature and importance.
 - > Understand foundation of Chinese Communist Party, its relations with Commenter and Kuomintang.
 - > Know about Kuomintang communist struggle 1928 to 1935 in china
 - > Understand china during the period between-1936 to 1945
 - > Mao Zedong and his role in communist revolution in China

12) Paper No XII - Project Work

- > Improvement of student writing
- > Data collection and analysis
- > Discussion of writing findings
- > Teachers attitude and perception
- > Student attitude and perception
- > Discussion of case study
- > Findings

13) Paper No XIII – Field of History

- Understand the History of and deeply rooted in the various fields of profession
- Know about Archeology and process in Archaeology.
- Know about the importance and its valuable role in political sources in Monarchy system.
- Grasp about the importance of museums in understanding of historical legacy property.
- > Understand about the historical Tourism and its importance in grasping historical facts.
- > Identify the valuable contribution of leading histories in Indian History Writing.
- > Understand the importance types and forms of tourism.

14)12) Paper No XIV - Landmarks in the Modern World

- Understand about the new Imperialists of World countries
- Identify the American Revolution in America
- Figure Grasp about the French Revolution in France.
- Figurificance. For about the Industrial Revolution-Background, Development & Significance.
- Know about the Dictatorship in Germany and Italy.
- Grasp about the First World Wars and their after.
- > Grasp about the Second World war

15) Paper No XV – Glimpses of the History of Marathwada (Up to 1948 AD)

- > Understand political history of Marathwada- a brief survey
- > Understand the religious movement in Marathwada.
- > Understand art and architecture, temple architect forts in Marathwada.
- > Socio economic and cultural history of under the Nizam State in Marathwada
- Understand Hyderabad freedom struggle role of all Indian Scheduled caste freedom in Hyderabad Freedom Struggle.

16) Paper No XVI – Project Work

- > Improvement of student writing
- > Data collection and analysis
- Discussion of writing findings
- > Teachers attitude and perception
- > Student attitude and perception
- Discussion of case study
- > Findings

Head Dept. of History



The state of the s

LC Principal
Karmaveer Mamasaheb Jagdale
Mahavidyalaya, Washi.

Department of Computer Science

Course outcome

- ➤ Students will be able to use appropriately system design notations and apply system design engineering process in order to design, plan, and implement software systems
 - Students will be able to communicate in written and oral forms in such a way as to demonstrate their ability to present information clearly, logically, and critically.
- > Students will be able to apply mathematical and computing theoretical concepts in solution of common computing applications, such as computing the order of an algorithm.
- > Students will be able to complete successfully be able to program small-to-midsize programs on their own. Sufficient programming skills will require use of good practice.
 - In a self-selected area of depth in Computing, students will demonstrate a depth of knowledge appropriate to graduate study and/or lifelong learning in that area. Students should be able to read for understanding materials in that area beyond those assigned in coursework.
- > Students will be prepared for a career in an information technology oriented business or industry, or for graduate study in computer science or other scientific or technical fields.

I/C Principal

Karmaveer Mamasaheb Jagdale Mahsvidyalaya, Washi.

श्री शिवाजी शिक्षण प्रसारक मंडळ, बार्शी संचलित कर्मवीर मामासाहेब जगदाळे महाविद्यालय, वाशी

कमवार मामासाहब जगदाळ महाावद्य ता. वाशी जि. उस्मानाबाद

मराठी विभाग 'प्रोग्राम आऊटकम'

अ.क्र.	प्रोग्राम	प्रोग्राम आऊटकम	प्रोग्राम स्फेसिफीक आऊटकम
1	बी.ए. मराठी	मराठी साहित्याच्या ऐतिहासिक परंपरेचे ज्ञान तसेच	विद्यार्थ्यामध्ये मराठी भाषा समर्थपणे
		साहित्याच्या प्रेरणा, प्रवृत्तीचे ज्ञान विद्यार्थ्यांना मिळेल.	वापरण्याची क्षमता निर्माण करणे.
		मराठी भाषेचे स्वरूप, उत्पन्न आणि साहित्याच्या	
		निर्मितीची प्रक्रिया विद्यार्थ्यांना कळेल.	

कोर्स आऊटकम

	कोसे आऊटकम
	कोर्स आऊटकम
बी. ए. भाग 1	1. विद्यार्थ्यांमध्ये मराठी भाषा समर्थपणे वापरण्याची क्षमता निर्माण होईल.
मराठी (आवश्यक)	2. साहित्याच्या विविध प्रकाराचे व प्रवाहाचे आकलन, आस्वाद आणि
मराठी गद्य पद्य आणि	विश्लेषण वैभव त्यांच दृष्टिपथास येईल.
उपयोजित मराठी	3. साहित्यात मोडलेल्या विषयांच्या अनुषंगाने जीवनातील प्रश्न विद्यार्थ्यांना
	कळतील व समाजकार्य करण्यास प्रेरणा मिळेल.
	4. व्यवहारिक मराठीतून विद्यार्थ्यांना आर्थिक दृष्टया आत्मनिर्भर राहण्यास
	दिशा मिळेल.
बी. ए. भाग 1 - मराठी (ऐच्छिक)	1. साहित्य अभ्यासातून विद्यार्थ्यांमध्ये जीवन विषयक समज विकसीत होईल.
पेपर क्र. 1, 2, 3, 4.	2.जागतिकीकरणात विविध विषयांना श्रेयांना सामोरे जाण्यासाठी भाषिक
पेपर क्र. 1 काव्यात्मक साहित्य	क्षमता विकसित होऊन विद्यार्थ्यांच्या व्यक्तीमत्व विकासात भाषेचे महत्व
पेपर क्र. 2	स्पष्ट होईल.
पेपर क्र. 3 कथात्मक साहित्य	
पेपर क्र. मुद्रीत माध्यमासाठी	
लेखन कौशल्य	
बी. ए. भाग २ मराठी (आवश्यक)	1. वाड्:मयाची ओळख विद्यार्थ्यांना होईल. मराठीत कथा, कादंबरी, नाटक,
पेपर क्र. 3, 4,	काव्य, इ. प्रकारांची माहिती विद्यर्थ्यांना विविध गद्य-पद्याच्या माध्यमातून
गद्य पद्य आणि उपयोजित मराठी	विद्यार्थ्यांच्या व्यक्तीमत्व विकासात भाषेचे महत्व स्पष्ट होईल.
	2. तसेच उपयोजित मराठीच्या घटकातून विद्यार्थ्यांना बातमी लेखन, पत्रलेखन,
	वृतांत लेखन इ. ची माहिती देणे.
	बी. ए. भाग 1 मराठी (आवश्यक) मराठी गद्य पद्य आणि उपयोजित मराठी बी. ए. भाग 1 - मराठी (ऐच्छिक) पेपर क्र. 1, 2, 3, 4. पेपर क्र. 1 काव्यात्मक साहित्य पेपर क्र. 2 पेपर क्र. 3 कथात्मक साहित्य पेपर क्र. 3 कथात्मक साहित्य पेपर क्र. मुद्रीत माध्यमासाठी भे लेखन कौशल्य बी. ए. भाग 2 मराठी (आवश्यक) पेपर क्र. 3, 4,

4		बी. ए. भाग 1 - मराठी (ऐच्छिक)		1. कथा, वाड्:मय प्रकाराची ओळख विद्यार्थ्यांना होईल.
		पेपर क्र. 5 - आधुनिक मराठी		2. मराठी कथेची जडणघडण ऐतिहासिक स्थित्यंतरे कथा व इतर साहित्याच्या
		वाड्:मयाचा इतिहास (1800 ते		अनुषंगाने समजून कथा वाड्:मयाचे समकालीन स्वरूपाचे आकलन
		1885) कथा आणि कादंबरीचा		विद्यार्थ्यांना होईल.
		प'	रिचय	
5		2	गी. ए. भाग 2	1. मराठी भाषा निर्मिती कशी झाली. त्याचे ज्ञान विद्यार्थ्यांना होईल.
		i	पेपर क्र. 6	2. भाषा विकसीत कशी होईल हे कळेल.
			मराठी भाषा विकास संवर्धन	3. भाषेचे संवर्धन करता येईल. भाषेचे विविध कौशल्य विद्यार्थ्यांना ज्ञात
			आणि भाषिक कौशल्य	होईल.
	6	5	बी. ए. भाग 2	1. नाटकाची पूर्वपरंपरा, तेलगु देशात मराठी नाटके.
1			पेपर क्र. 7 - आधुनिक मराठी	2. मराठी नाटकाचे जनक विष्णुदास भावे, मराठी नाट्य वाड्:मयाची
			वाड्:मयाचा इतिहास (1885 ते	पूर्वतयारी पौराणिकनाटके, बुकीश नाटके, संस्कृत व इंग्रजी नाटकांची
			1920) नाट्य वाड्:मय	भाषांतरे.
				3. चरित्र व आत्मचरित्राचा परिचय करून दिला जाईल.
		7	बी. ए. भाग 2	1. साहित्य प्रकारांतराची संकल्पना स्पष्ट करणे.
			पेपर क्र. 8	2. माध्यमांचे महत्व स्पष्ट करून त्याचा साहित्याशी असणाराअनुबंध
			साहित्य प्रकारांतर आणि	उलगडून दाखिवणे.
			साहित्याचे माध्मांतर	3. माध्यमासाठीच्या विविध लेखन प्रकारांचा परिचय करून देणे.
				4. माध्यमासाठीच्या लेखन प्रकाराचे महत्व व आकलन याविषयी स्थुल
				परिचय घडविणे.
				5. माध्यम लेखनात असणारे साहित्याचे महत्व विशद करणे.
	2	8	बी. ए. भाग 3	1. भारतीय साहित्याच्या स्वरूपाची विद्यार्थ्यांना ओळख र्होईल.
			पेपर क्र. 9	2. साहित्याच्या प्रयोजनासंबंधी विद्यार्थी आकलन करतील.
			भारतीय साहित्य विचार	3. साहित्यातील निर्मिती प्रक्रिया व रसिवचार विद्यार्थी समजून घेतील.
			पेपर क्र. 12	4. शब्दशक्ती व अर्थविचार संबंधी साहित्य व सौंदर्यविषयक दृष्टिकोन
			पाश्चात्य साहित्य विचार	विकसित होईल.
	-			

9 बी. ए. भाग 3	1. भाषेचे स्वरूप व त्याचे मानवी जीवनातील महत्व विद्यार्थ्यांना समजावून सांगणे.	
पेपर क्र. 10	2. भाषेच्या अभ्यास पध्दतीचा परिचय करून देणे.	
भाषा विज्ञान	3. भाषेमध्ये होणारी परिवर्तने विद्यार्थ्यांना समजतील.	
पेपर क्र. 14	4. भाषा आणि व्याकरण यातील अनुबंध स्पष्ट होईल.	
10 बी. ए. भाग 3	1. यादवकालीन सामाजिक, सांस्कृतिक, धार्मिक स्थितीगतीचा अभ्यास करणे.	
पेपर क्र. 11	ग्रंथिनिर्मिती मागील प्रेरणांचा अभ्यास करणे.	
मध्ययुगीन मराठी	2. बहामनीकाळ ग्रंथिनिर्मिती मागील प्रेरणा व त्यांचा प्रत्यक्ष ग्रंथरचनेवरील परिणाम	
वाड्:मयाचा इतिहास	विद्यार्थी समजून घेतील.	
प्रारंभ ते 1600	3. तत्कालीन महत्वाचे ग्रंथ, ग्रंथकार व ग्रंथविशेष यांचे आकलन करून घेणे.	
11 प्रकल्प कार्य भाग 1 व 2	 वाचन लेखन कौशल्याचा विकास करणे. 	
पेपर क्र. 12 व	2. विद्यार्थ्यांच्या समीक्षणात्मक दृष्टिचा विकास करणे.	
पेपर क्र. 16	3. पेशवेकालीन ग्रंथिनर्मितीमागील प्रेरणा व त्यांचा प्रत्यक्ष ग्रंथरचनेवरील परिणाम	
	विद्यार्थ्यांना समजून देणे.	
	4. तत्कालीन महत्वाचे ग्रंथ, ग्रंथकार व ग्रंथिवशेष यांचे विद्यार्थ्यांना आकलन करून	
	देणे.	

प्रा. एम. ए. चंदनशिव मराठी विभाग प्रमुख



डॉ. आर. की. कठारे प्रभारी प्राचार्य कर्मवीर मामासाहेव जगदाटे महाविद्यालय, वाशी.

श्री शिवाजी शिक्षण प्रसारक मंडळ, बार्शी संचलित कर्मवीर मामासाहेब जगदाळे महाविद्यालय, वाशी

ता. वाशी जि. उस्मानाबाद

हिंदी विभाग Course Outcomes (पाठ्यक्रम का परिणाम)

	Course Outco	omes (पाठ्यक्रम का परिणाम)
अ.क्र.	पाठ्यक्रम	पाठ्यक्रम का परिणाम
1	बी.ए., बी.एस्सी., बी.कॉम.,	 छात्रों में सामाजिक संवेदनाओं का विकास कराना।
	भाग । (व्दितीय भाषा हिंदी).	2) उनमें भाषा कौशल का विकास कराना।
	सत्र 1 प्रश्नपत्र - 1 सामान्य हिंदी. (SL)	3) छात्रों में व्यवहार ज्ञान में वृध्दि के साथ तकनीकी तथा
	सत्र 2 प्रश्नपत्र - 2 सामान्य हिंदी. (SL)	प्राद्योगिकी क्षेत्र से परिचित कराना।
2	बी.ए. भाग 1 ऐच्छिक हिंदी.	1) हिंदी नाटक तथा रंगमंच का अध्ययन करना।
	प्रथम सत्र	2) छात्रों में सामाजिक संवेदनाओं का विकास करना।
	1) प्रश्नपत्र क्र. 1 — उपन्यास साहित्य.	3) नाट्य स्वादन और नाटयालोन क्षमता का विकास करना।
	2) प्रश्नपत्र क्र. 2 — नाटक साहित्य.	
	व्दितीय सत्र	
	प्रश्नपत्र क्र. 3 — कहानी साहित्य.	
	प्रश्नपत्र क्र. 4 — एकांकी साहित्य.	
	प्रश्नपत्र 2 — नाटक साहित्य.	
	व्दितीय सत्र	1) कहानी तथा व्यंग्य साहित्य का अध्ययन करना।
	प्रश्नपत्र क्र. 3 हिंदी गद्य साहित्य.	2) संवेदनाओं का विकास करना।
		3) साहित्य अस्वादन तथा मूल्यांकन क्षमता का विकास करना।
		4) कहानियों क संवेदना और शिल्पगत अध्ययन करना।
		5) हरिशंकर परसाई के व्यक्तित्व एवं कृतित्व से परिचित कर,
		उनके साहित्य में स्थित वर्गगत चेतना से परिचित कराना।

	व्दितीय सत्र	Colonia
		 हिंदी नाटकों के नये भेदों से परिचित कराना ।
	प्रश्नपत्र क्र. 4 एकांकी साहित्य.	2) संवेदना का विकास करना।
		 नाट्यास्वादन एवं नाट्यालोचन क्षमता का विकास करना।
		4) उपन्यास साहित्य का परिचय देकर प्रतिनिधि उपन्यासकारों
		का परिचय कराना।
		5) हिंदी साहित्य के प्रति छात्रों की अभिरूचि बढाना तथा
		साहित्य की विविध विधओं सें परिचित कराना।
		6) छात्रों में राष्ट्र प्रेम एवं सामाजिक प्रतिबध्दता की भावना
		विकसित करना।
		7) छात्रों में जीवन मूल्यों के प्रति आस्था निर्माण करना।
		8) आपका बंटी — मन्नु भंडारी लिखित उपन्यास से परिचित
		कराना।
		9) राष्ट्रीय एकात्मता, सामाजिक उत्तरदायित्व, वैज्ञानिकता
		आदि मूल्यों के प्रति छात्रों का ध्यान आकर्षित करना।
3	बी. ए., बी. एस्सी. भाग — 2, व्दितीय	1) साहित्य आस्वादन अभिरूचि का परिसंस्कार करना।
	भाषा हिंदी,	2) जीवन मूल्यों के प्रति आस्था निर्माण करना।
	सामान्य हिंदी — भाग 3, 4	3) भाषा प्राद्योगिकी एवं विज्ञापन कला का ज्ञान अर्जित करना
	सत्र 3 — प्रश्नपत्र क्र. 3	4) आधुनिक इलेक्ट्रॉनिक्स माध्यमों का परिचय कराना।
	सत्र ४ — प्रश्नपत्र क्र. ४	5) लेखन एवं पठन कौशल्यों में वृध्दि कराना।
	बी.कॉम. भाग 2 व्दितीय भाषा हिंदी (SL)	6) हक-श्राव्य माध्यमों का प्रयोग करना।
	सत्र 3 — संप्रेषणमूलक हिंदी.	
	सत्र ४ — संप्रेषणमूलक हिंदी.	
4	बी.ए. भाग 5 ऐच्छिक हिंदी	
	तृतीय सत्र / चतुर्थ सत्र	
	1) प्रश्नपत्र क्र. 5	
	2) प्रश्नपत्र क्र. 6	
	3) प्रश्नपत्र क्र. ७	
	4) प्रश्नपत्र क्र. 8	

बी	. ए भाग 3, पंचम और षष्ट सत्र.	
		1) साहित्य आस्वादन अभिरूचि का परिसंस्कार करना।
,	श्नपत्र क्र. 9 - प्रादेशिक साहित्य.	2) छात्रों में जीवन मूल्यों के प्रति आस्था निर्माण करना।
		3) प्रादेशिक साहित्य के ज्ञान में अभिवृध्दिः कराना।
		4) भारतीय साहित्य का अध्ययन करना।
	प्रश्नपत्र क्र. 10 — आदि तथा मध्यकालीन	1) हिंदी साहित्य की परंपरा से परिचित कराना।
f	हेंदी साहित्य का इतिहास.	
	प्रश्नपत्र क्र. 11 — साहित्यशास्त्र	1) साहित्य चिंतन का अध्ययन करना।
		2) साहित्य समालोचन क्षमता का परिचय कराना।
		3) साहित्य सृजन के संस्कार परिवर्धित करना।
	प्रश्नपत्र क्र. 12 — प्रकल्प कार्य	1) पठन लेखन कैशल का विकास कराना।
		2) आलोचनात्मक क्षमता का विकास कराना।
		3) अनुसंधानात्मक दृष्टि का विकास कराना।
	प्रश्नपत्र क्र. 13 — मध्यकालीन काव्य.	1) भारतीय भक्ती आंदोलन का अध्ययन करना।
		2) रीतिकालिन संवेदना का अध्ययन करना।
		3) कविता के माध्यम से मध्यकालीन सांस्कृतिक संवेदना का
		अध्ययन करना।
	प्रश्नपत्र क्र. 14 — आधुनिक हिंदी साहित्य	1) साहित्य आस्वादन अभिरूचि का परिसंस्कार करना।
	का इतिहास.	2) जीवन मूल्यों के प्रति आस्था।
		3) हिंदी साहित्य की परंपरा का परिचय कराना।
	प्रश्नपत्र क्र. 15 — साहित्य शास्त्र	1) साहित्य चिंतन का अध्ययन करना।
		2) साहित्य समालोचन क्षमता का परिचय कराना।
		3) साहित्य सृजन के संस्कार परिवर्धित करना।
	प्रश्नपत्र क्र. 16 — प्रकल्प कार्य.	प्रकल्प कार्य।
	प्रश्नपत्र क्र. 12 और 16 प्रकल्प कार्य.	प्रकल्प कार्य की परिपुर्ती करना।

डॉ. ए. के. गंभीरे



डॉ. आर. व्ही. कठारे I/C Principal Karmaveer Mamasaheb Jagdale Mahavidyalaya, Washi.

DEPARTMENT OF ENGLISH

COURSE OUTCOMES

- 1) To create confidence, curiosity about English Language.
- 2) To prepare students to stand firmly in this global world.
- 3) To introduce students with various job opportunities while having confidence about English Language.
- 4) To prepare students to face competitive exam of English Language.
- 5) To teach human values, ethics, and moral.
- 6) To build a personality of the students as a social, national responsible person.

SPECIFIC OUTCOMES

F. Y. B. A. Compulsory English '

Title of the Paper: Language Through Literature: An Anthology of Prose and Poetry Outcomes

- a) To familiarize students with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English
- b) To expose them to native cultural experiences and situations in order to develop humane values and social awareness
- c) To develop overall linguistic competence and communicative skills of the students.

F. Y. B. A. Optional English

Title of the Paper: 1) The Structure of English

2) Reading Literature

Outcomes

- 1. To expose students to the basics of literature and language
- 2. To familiarize them with different genre and form of literature in English, the literary devices and terms so that they understand the literary merit, beauty and creative use of language
- 3. To introduce the basic units of language so that they become aware of the technical aspects and their practical usage
- 4. To prepare students to go for detailed study and understanding of literature and

language

5. To develop an integrated view about language and literature in them.

S. Y. B. A. Compulsory English

Title of the Paper: Language through Writing: An Anthology of Prose and Poetry Outcomes

- 1. To develop competence among the students for self-learning
- 2. To familiarize students with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English
- 3. To develop students' interest in reading literary pieces
- 4. To expose them to native cultural experiences and situations in order to develop humane values and social awareness
- 5. To develop overall linguistic competence and communicative skills of the Students

S. Y. B. A. Optional English

Title of the Paper: 1) Literature in English (1550-1750)

2) Literature in English (1750-1900)

Outcomes

- 1. To expose students to the basics of poetry, novel, drama one of the forms of literature
- 2. To familiarize them with different types of drama, novel, poetry in English
- 3. To make them understand the literary merit, beauty and creative use of language
- 4. To introduce some advanced units of language so that they become aware of the technical aspects and their practical usage
- 5. To prepare students to go for detailed study and understanding of literature and language
- 6. To develop integrated view about language and literature in them.

T. Y. B. A.

Title of the Paper: Twentieth Century English Literature





Outcomes:

- 1. To introduce students to master pieces of the Modern English Literature
- 2. To familiarize students with the communicative power of English Language
- 3. To enable students to become competent users of English in real life situations
- 4. To expose students to varied cultural experiences through literature
- 5. To contribute to their overall personality development by improving their communicative and soft skills.

Title of the Paper: Indian Writing in English

Outcomes:

- 1. To expose students to some of the best samples of Indian English Poetry, drama and novel.
- 2. To make the students see how Indian English poetry, drama, novel expresses the ethos and culture of India.
- 3. To make them understand creative uses of language in Indian English Poetry, drama and novel
- 4. To introduce students to some advanced areas of language study.
- 5. To prepare students to go for detailed study and understanding of literature and language.
- 6. To develop integrated view about language and literature among the students.

Title of the Paper: Introduction to Literary Criticism and Terms

Outcomes:

- 1. To introduce students to the basics of literary criticism
- 2. To make them aware of the nature and historical development of criticism
- 3. To make them familiar with the significant critical approaches and terms
- 4. To encourage students to interpret literary works in the light of the critical approaches
- 5. To develop aptitude for critical analysis.

Title of the Paper: Project Work on History of English Literature

1) To make familiar students with the History of English Literature

- 2) To know English Periods and Master pieces of that period.
- 3) To develop research skill among the students.
- 4) To develop analytical, critical attitude among the students.
- 5) This paper provides opportunity to the students to enrich their writing and presentation skills.

Departmental Programme:

The Department of English conducted following activities.

- 1) Immigration of English Literary Association: Students Conduct whole programme in English.
- 2) Poster Presentation.
- 3) Writing Poems, articles, jokes, letters etc.

Outcomes:

- 1) Multidimensional development of the students.
- 2) Skill development of the students.
- 3) Personality development of the student.
- 4) Scope to write and stage daring.
- 5) Creativity.

Mr. K. D. Gund Assistant Professor Prof. Dr. A. Y. Katte Head of Department

Prof. Dr. R. V. Kathare
Pfin Pracipational
Karmaveer Mamasaheb Jagdale
Mahavidyalaya, Washi.

