



**Sudhagad Education Society's
Shikshan Maharshi Dadasheb Limaye College Kalamboli, Dist.-
Raigad, Maharashtra, India.**

Accredited with 'B' Grade by NAAC

(Affiliated to UNIVERSITY OF MUMBAI)

Department of History

Programme

B. A HISTORY

- **PO (Programme Outcome)**
- **PSO (Programme Specific Outcomes)**
- **CO (Course Outcome)**

Academic Year 2021-22

PROGRAMME OUTCOMES

(Programme: B.A. History)

Programme outcomes refer to the overall characteristic an individual is supposed to acquire on the completion of the three-year degree program in Bachelor of Arts. The attributes based on acquisition, accumulation and processing of knowledge of the particular subject are transferable beyond the discipline and useful in different domains of life.

- **Domain knowledge:** It refers to the comprehensive understanding of the disciplines knowledge acquired during the degree programme.
- **Critical thinking:** Capability to generate an analytical frame of mind in terms of application of concepts, theories and methods, formulate questions and quest to seek solutions to the problems.
- **Analytical skills:** Ability to evaluate the problems, identify the logical flaws, skillful application of research methods and to generate and understand data sets.
- **Problem solving capacity:** Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems.
- **Team work:** Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team.
- **Moral and ethical awareness:** Ability to embrace moral/ethical values in conducting one's life, formulates a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work.
- **Digital literacy:** Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data

PROGRAMME SPECIFIC OUTCOMES

(Programme: B.A. History)

On completing B.A. History, the student will be able to:

Obtain basic understanding of political and administrative history at local, regional, national and global levels to comprehend current political scenario.

Become aware of the ideological concepts, socio-economic and cultural aspects with relation to revolutions, world wars, movements and foreign policies.

Understand various forms of government, administrative methods and public administration in ancient, medieval and modern India and other parts of the world.

Be sensitized on various views, perspectives and contributions of women's studies down the ages, women empowerment, mechanism of human rights and rights of vulnerable groups to lead a better life.

Develop the skills needed to succeed in competitive examinations to enhance job opportunities in various history-related fields e.g., archives, museums etc.

Identify various forms of personnel, administrative, management types of organizations, and exhibit managerial skills to receive placements at managerial positions in companies and firms.

Learn the travel formalities, ticketing, and the organization and functions of travel agencies to develop entrepreneurial skills.

Assess the historical background of development of science and technology, the contribution of various scientists and their inventions closely associated with our life

Get a perspective on the main philosophical ideas, other cultural developments and spiritual principles of Indian history.

COURSE OUTCOMES

(Programme: B.A. History)

On completing the course, the student will be able to:

Semester I

Course: FYBA

Course Title: History of Modern India (1857-1947)

CO 1: The course is designed to make the student aware about the making of modern India and the struggle for independence

CO 2: Understand British colonialism and its impact on India.

CO 3: Identify different patterns of political consciousness in the struggle for freedom.

Understand the basis of contemporary politics in the history of pre-independent India.

Semester –II

Course: FYBA

Course Title: History of Modern India: Society and Economy.

CO 4: Understand the Socio – Economy Transformation during British Period in India.

CO 5: Identify different patterns of Socio – Economy Transformation in the struggle for freedom.

CO 6: Contribution of Women, Dalit and Tribes In Indian Modern History.

Semester –III

Course: SYBA II

Course Title: Landmarks in World History, 1300 A.D.-1945 A.D.

CO 7: To enable the students to comprehend the transition of Europe from medieval to modern times and its impact on the world.

CO 8: To provide accurate knowledge of the most significant events and personalities of the period under study and encourage understanding of the making of the modern world

CO 9: Understand how World War I unfolded.

Course: SYBA III

Course Title: Ancient India from Earliest Times to 1000 A.D.

CO 10: Get a broad understanding of the main political trends, social formations and economic systems of early India.

CO 11: Analyze the prehistoric cultures in India, Indus civilization, Aryan invasion and Vedic society, formation of states (mahajanapathas), Jainism and Buddhism.

CO 12 : Initiate a spirit of inquiry into the early history of India

Semester -IV

Course: SYBA II

Course Title: Landmarks in World History, 1300 A.D.-1945 A.D.

CO 13: Understand the Post war Period of World History.

CO 14: What is a Causes of Rise of Fascism, Nazism etc.

Course: SYBA III

Course Title: Ancient India from Earliest Times to 1000 A.D.

CO 15: Evaluate the rise of Magadas and Nandas, Alexander's invasion, Mauryan empire, Chandragupta, Asoka's Dhamma and his inscriptions, Mauryan administration, Gupta & Later Gupta, Harshawardhan Period and Rulers of South India

CO 16: Trace the growth of foreign trade and its cultural impact.

Semester – V

Course: TYBA IV

Course Title: History of Medieval India (1000 CE – 1526 CE)

CO 17: Know the sources of history and historiography of the period under review.

CO 18: Have an overview of the political events in medieval India (1000 CE – 1526 CE)

CO 19: Form a deeper understanding of transitions and political processes at work.

Course: TYBA V

Course Title: History of Modern Maharashtra (1818 CE-1960 CE)

CO 19: understand the process of Transformation from 19th to 20th century Maharashtra

CO 20: take initiative part to celebration of birth anniversary of imminent personality of modern Maharashtra.

CO 21: write article and present their own view related the topic of modern Maharashtra.

CO 22: discuss and summaries current issue in the area of social religious reform movement in 19th century Maharashtra

Course: TYBA VI

Course Title: Introduction to Archaeology

CO 23: This paper will help the students to understand the other papers of ancient Indian history where archaeology plays a very important role. They will be able to grasp the ideas of ancient sites and human landscapes in a much meaningful manner.

Course: TYBA VII

Course Title: History of the Marathas (1630 CE -1707 CE)

CO 24: able to analysed Administrative Systems of Marathas.

CO 25: able to explain Nature of Maratha Polity CO3:

CO 26: able to identify Strength & weakness of Maratha Administrative system

CO 27: Understood the Socio- Political Power Structure of Maratha period.

Course: TYBA VIII

Course Title: History of Contemporary World (1945 CE -2000 CE)

CO 28: trace some of the major events of post-World War II period.

CO 29: Developed the understanding of new military and political ideas and institutions

CO 30: comprehend the ways in which events of the latter half of the twentieth century have influenced the present.

CO 31: understand the process and impact of globalization CO4: able to understand contemporary world from historical perspective

Course: TYBA IX A

Course Title: Research Methodology and Sources of History

CO 32: teach students basics of research methodology in history with a view to promote historical research.

CO 33: Understand the various kinds of sources of history and its interpretation.

CO 34: Acquaint students with the new trends and approaches in history writing.

Semester – VI

Course: TYBA IV

Course Title: History of Medieval India (1526 CE – 1707 CE)

CO 35: Know the sources of history and historiography of the period under review.

CO 36: Have an overview of the political events in medieval India (1526 CE – 1707 CE)

CO 37: Form a deeper understanding of transitions and political processes at work.

Course: TYBA V

Course Title: History of Contemporary India (1947 CE- 2000 CE)

CO 38: Understand the economic and Political Transformation of Contemporary India

CO 39: understand the process of making the Constitution and the Integration and Reorganization of Indian States.

CO 40: comprehend the socio-economic changes and progress in science and technology in India.

CO 41: Understand the Progress of India after Independence.

Course: TYBA VI

Course Title: Introduction to Museology and Archival Science

CO 42: inform the students about the role of Museums in the preservation of Heritage.

CO 43: Encourage students to pursue careers in various Museums and Archives in India and abroad.

CO 44: Understand the importance of Archival Science in the study of History.

Course: TYBA VII

Course Title: History of the Marathas (1707 CE - 1818 CE)

CO 45: Understand the emergence of Maratha power in India

CO 46: Study the evolution of Peshwaship

CO 47: Examine the shift in the balance of power in western India.

CO 48: contribution of the Marathas in the national politics of the 18th century.

CO 49: Understanding of the society and culture in Maharashtra in the 18th century.

Course: TYBA VIII

Course Title: History of Asia (1945 CE -2000 CE)

CO 50: understand the ways in which Asian nations resisted and defied the control of the West.

CO 51: comprehend some of the trends that emerged in Asia.

CO 52: Understand The Change Happened after World war II in ASIA.


Course: TYBA IX A

Course Title: Research Methodology and Sources of History

CO 53: Understand the new trends and approaches in history writing.

CO 54: Importance of Documents and its Interpretation in History.

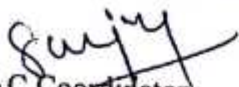
CO 55: Understand the Steps & Scope Historical Research



Head, Department of History

Head

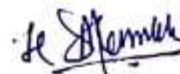
Department of History
S. M. D. L. College, Kalamboli.



IQAC Coordinator

Co - ordinator - IQAC

SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist - Raigad.



Principal

PRINCIPAL

SES's S. M. Dadasaheb Limaye
ACS College, Kalamboli,
Tal : Panvel, Dist : Raigad.



Department of Geography

Programme outcome

Year 2021-22

1. The degree of Bachelor of Arts will encourage first generation learners and impoverished class students to aspire for higher education.
2. Learning and Higher Education is brought within the means of the students who desire for a graduate degree.
3. Languages and social sciences provide a better insight to life. The Bachelor of Arts programme will create awareness about the same amongst the students.
4. Upon completion of this programme, students will stand eligible for post-graduate programmes in Law, Education, Languages, Social Sciences, Social Services and a multitude of other programmes, thereby adding to the educated and skilled workforce of the society.

Programme Specific Outcome

1. The B. A. Geography programme aims to enhance geographical knowledge and awareness amongst students regarding the present scenario of environmental degradation, climate change, demographic issues, urbanization and other problems affecting the earth.
2. The programme will also empower the students with the skills required to analyse, evaluate and act upon the problems by teaching them the latest techniques like GIS, GPS and Remote Sensing.
3. The programme will encourage students to study further for their post-graduate degree and take up further research in the field of Geography.
4. The programme aims to increase the employability quotient of the students and make them a skilled and educated work-force.



5. Understand the structure, composition of different spheres of the Earth and its Atmosphere.
6. Understand importance of oceans, rivers and water and find ways of their conservation
7. Acquire skills in Map reading and interpretation
8. Understand how to study a region
9. Make use of MS Excel in representation of statistical data
10. The Bachelor of Arts programme aims to create an interest for the languages, social sciences and humanities amongst students.

Course Outcomes

Class	Course	semester	Outcome
FYBA	Human Geography	I	<ol style="list-style-type: none">1. Develop interest in human imprints on Earth2. Understand the concept of resource3. Correlate human activities with geographical setting4. Develop skill of drawing graphs
	Environmente Geography	II	<ol style="list-style-type: none">1. This course will make students environmentally aware.2. Syllabus empowers them to positively change the environment around them by creating wise-developments.3. It also makes them environmentally sensitive to teach the society the values of environment and enact positively for the betterment of the society.



S.Y.B.A.	Climatology	III	<ol style="list-style-type: none">1. Understand the nature of atmosphere2. Better knowledge of distribution of climatic factors on Earth3. Learn processes behind climatic phenomenon occurring around4. Learn to read Weather maps
	Physical Geography of India	III	<ol style="list-style-type: none">1. Understand the physiographic setting of India2. Know the water resource potential of India3. Learn about mineral resource richness of India4. Acquire map filling skill5. Learn to draw map scales
	Oceanography	IV	<ol style="list-style-type: none">1. Understand the distribution of seas2. Know the nature of sea movements3. Acquire skills of reading Bathymetric and Hydrographic charts
	Agriculture Geography of India	IV	<ol style="list-style-type: none">1. Understand the agricultural setting of India2. Know the soil resource potential of India3. Learn about industrial regions of India4. Acquire map filling skill5. Learn to convert map scales
T.Y.B.A.	Settlement Geography	V	<ol style="list-style-type: none">1. Understand variety of settlements in rural and urban settings2. Learn changing patterns in urban settlements3. Know the functions settlements perform4. Know the urbanisation in India
	Population Geography	V	<ol style="list-style-type: none">1. This course will provide the information on population changes and its impact on Human society and environment.



		<ol style="list-style-type: none">2. It will also encourage the participation of students in positively influencing their family and society in qualitatively and quantitatively improving the demographic trends.
Tools and techniques for spatial Analysis -I	V	<ol style="list-style-type: none">1. This course will create awareness about maps, map use and computers.2. It also empowers their computer knowledge regarding hardware, software and digital cartography.
Regional Planning and Development	V	<ol style="list-style-type: none">1. This course will empower students with the knowledge of regional differences in development of India,2. Importance of planning and active participation of youth in the process of development and planning.
Geography of Resources	V	<ol style="list-style-type: none">1. This course will enhance student's ability to know about various resources and its utilization.2. It will also create an understanding about wise utilization of resources and sustainable outlook with a renewable implementation.
Geospatial Technology	V	<ol style="list-style-type: none">1. This course provides extensive knowledge about Remote Sensing and Geographical Information Systems with their recent applications.2. This paper helps students get oriented with geospatial jobs in the employment market and makes them capable enough to be placed early.
Environmental Geography	VI	<ol style="list-style-type: none">1. This course will make students environmentally aware.2. Syllabus empowers them to positively change the environment around them by creating wise-developments.

		3. It also makes them environmentally sensitive to teach the society the values of environment and enact positively for the betterment of the society.
Political Geography	VI	1. This course enables the knowledge of students regarding Political knowledge It develops their entrepreneurial skills to build a start-up.
Tools and techniques for spatial Analysis_-II	VI	1. This course enables students to have knowledge and application of statistics in Geography. 2. It interests the students to carry out socio-economic and geographical surveys by utilizing statistical techniques in the research.
Economic Geography	VI	1. This course makes students aware about the economic activities and their linkages with the Geography. 2. Syllabus also helps to develop an understanding regarding various economic events in the day-to-day life and its application with a critical outlook.
Social Geography.	VI	1. This course will encourage students to study social issues and became a best citizen .
Research Metodology	VI	1. This course will increase the students' curiosity and cultivate a research streak in them which in turn will be beneficial to the subject as students will take more interest in contributing to the subject matter.

SMDL College , Kalamboli
Department of Economics (UG)
Program BA

DEPARTMENT OF ECONOMICS 2021-22

Program Outcomes

- know the basic concepts and theories its evolution, Scope, Importance and Nature of Economics as a subject
- Evaluate the economic system of India and understand the strengths and weakness of the country
- Accessing the economic planning and its competence with the Private sector and monetary policy
- Evaluating the setup of International economic policy and HRM
- To know the essence of world Trade in the course of Indian economy
- Discuss the Indian budget
- Understanding the ethical moral values in economy
- Conceptual understanding of economy of Maharashtra
- To understand concept of entrepreneurship and SSIM
- Evaluating the role of money in the Global level
- Understanding the new trends in LPG (liberalization privatization globalization) such as New economic zone
- Understand the basic concepts of Indian Economics.
- Students acquired the knowledge of Indian and world economy.
- Introduce ten principles of economics understand
- Develop and understanding of constituents of open economy
- Understand contemporary economic issues of Indian economy and Maharashtra economy.
- Knowledge about Indian economy in colonial context and mechanism link economic development in India.
- Knowledge about Indian thinkers.
- Knowledge about the issues related to environment and development.
- Knowledge about Indian Government Income Cost and Tax.

Course Outcomes 2021-2122

- Understand the meaning, nature, scope of economic
- To understand utility demand analysis and types elasticity.
- Understanding Demand forecasting of business unit
- Analysis objective of firm and industry.
- Understand the basic knowledge of Production Function
- Ability to understand the micro and macro economics

- Able to analyse the performance of firms under different market structures
- Recognize how monetary and fiscal policy can be used to achieve policy goals
- Understood the concept of economic development
- Students acquired knowledge about inequality, poverty, Education, health and family welfare
- Acquired knowledge of agricultural prices, marketing, finance & subsidies in India
- To aware the students about financial institutions and its function.
- Able students to build on the constituents in the future years.
- To help the students apply micro economics to the real world.
- To enable the students knowing the economic survey of India.
- Analysis key aspects of Indian economic development during second half of British colonial rule.
- To Understand economic cause of environmental problem.
- To Understand Indian thinkers and their ideas and contribution in Indian economy.
- Students acquired knowledge about Government welfare policy .

Smita
Limaye
 Department of Economics
Head

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Principal
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 S.E.S.'s S. M. Dadasaheb Limaye
 College, Kalamboli,
 Tal : Panvel, Dist : Raigad.

Shikshan Maharshi Dadasaheb Limaye Arts Commerce and Science College

Kalamboli Navi Mumbai.

DEPARTMENT OF ECONOMICS

Programme Specific Outcomes (PSO)

Academic Year- 2021-22

- Student are able to understand basic concepts of Economics
 - Student are able to understand planning
 - Provided valuable knowledge for making decision in everyday life of students .
 - Student are able to understand Social and Economic problem of Indian economy
 - Students are able to suggest of the various economic problem .
 - Creating awareness about changing macro-economic policies and theories
 - Development research knowledge in economics.
- learners are able to understand recent developments in the economy

F.Y.BA, SUBJECT :- ECONOMICS

MICROECONOMICS : I PAPER I, SEMISTER : I : This course is designed to expose the students to basic principle of microeconomics theory. The emphasis will be on the development of analytical thinking with the the help of statistical tools among the students and develop the skill of application of microeconomics concept to analyze the real life situations.

F.Y.BA, SUBJECT: - ECONOMICS

MICROECONOMICS: II PAPER – II, SEMISTER : II: This paper is aimed at giving supply side knowledge of economics to the Lerner which will enhance their knowledge about aspects of production, cost and revenue analysis, theories of distribution and understanding about the market structure.

S.Y.BA, SUBJECT :- ECONOMICS

MACROECONOMICS : I PAPER – III, SEMISTER : III : This course is designed to provide an introduction to the students about the basic building blocks of the macroeconomics which will serve as a fundamental throughout the carrier.

S.Y.BA, SUBJECT :- ECONOMICS

MACROECONOMICS : II PAPER – V, SEMISTER : IV : This course is designed to make students aware of macroeconomic terminologies and make them familiar with macroeconomic terms and concepts in order to understand economics at aggregate level. It also aims to make the students aware about recent developments in macroeconomics.

S.Y.BA, SUBJECT :- ECONOMICS

PUBLIC FINANCE PAPER – IV, SEMISTER : III : This paper deals with basic concepts which explain the need for government intervention. It exposes the student to public budget through issues

of taxation, expenditure, debt and concepts of deficit. The last unit is related to topics concerning Indian Public Finance

S.Y.BA, SUBJECT :- ECONOMICS

INDIAN ECONOMY PAPER – VI, SEMESTER : IV : This paper deals with the nature and sector wise composition of Indian economy. The learners shall be able to understand the problems and prospects of Indian economy. The content has also intended to orient the learners about the recent developments in the economy.

TYBA ECONOMICS (SEMESTER-V),

COURSE CODE : ECOAME501, GROUP-I : CORE PAPER, PAPER NO –VII, ADVANCED MICROECONOMICS - III

Course Objectives : The course is designed to provide sound understanding in micro economic theory. Since students have been taught perfect competition, this course focuses on three main pillars of microeconomics such as imperfect competition, welfare economics and information economics.

COURSE CODE : ECOGAD502, GROUP-I : CORE PAPER, PAPER NO – VIII, ECONOMICS OF GROWTH AND DEVELOPMENT

Course Objectives : This paper introduces the concepts, theories, process and policies regarding growth and development. The meaning of the development as it has evolved over the years is clarified. The contemporary as well as classical theories of growth, development, and underdevelopment are considered in detail. Theories and issues related to population, poverty, inequality and human capital are considered. Urban and rural aspects of the development process studied. Importance of technology, infrastructure and planning in development process are considered. The approach has been to cover all important areas of development economics.

COURSE CODE : ECOILC503, GROUP-II : ELECTIVE PAPER, PAPER NO – IX, INDUSTRIAL AND LABOUR ECONOMICS-I

Course Objectives

There has been a paradigm shift in the structure of the Indian industrial sector and the policies governing it ever since the new era of globalization and liberalization has ushered in. This paper intends to equip the students with the knowledge about the fundamentals of Industrial Economics and also the latest policies relating to the Indian industry.

COURSE CODE : ECOESSIC504, GROUP-II : ELECTIVE PAPER, PAPER NO – X, ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES

Course Objectives : This paper is designed with the aim of encouraging students to foresee themselves as potential entrepreneurs. The paper includes within the scope for case studies, Interviews of Entrepreneurs, Preparation of project report, group discussion, survey etc.

**COURSE CODE: ECOEEA505, GROUP-II : ELECTIVE PAPER, PAPER NO – XI,
ENVIRONMENTAL ECONOMICS - I**

Course Objectives : This course introduces the learner to the basic concepts, economic instruments and policy options in managing the environment. The impact of development on environment is suitably addressed under the rubric of sustainable development. Economic implications of environmental policy and valuation of environmental quality are important areas of concern to be covered. The students are sensitized to the role of human decisions in affecting the environmental quality and managing global environmental issues. The causes, effects and measures to control different types of pollution are impressed upon. The environmental accounting practices, policies, impact and risk analysis focuses on India.

**COURSE CODE : ECOEMA506, GROUP-II : ELECTIVE PAPER, PAPER NO – XII,
ECONOMY OF MAHARASHTRA-I**

Course Objectives : This paper provides a detailed account of various sectors of economy of Maharashtra i.e. natural resources, population, agriculture, industry, infrastructure, fiscal policy and human development. These units will introduce the various challenges faced by the economy of Maharashtra and efforts of the Government to tackle them.

TYBA ECONOMICS (SEMESTER-VI),

**COURSE CODE: ECOAME601, GROUP-I : CORE PAPER, PAPER NO –XIII, ADVANCED
MACROECONOMICS - III**

Course Objectives : This course introduces the students to formal modeling of a macro economic theory with analytical tools. Since students have been taught Keynesian Synthesis, this course focuses on four aspects which are the study of Post Keynesian Synthesis, Trade Cycles, Exchange Rate Regimes and International Monetary System.

**COURSE CODE: ECOIE602, GROUP-I : CORE PAPER, PAPER NO – XIV,
INTERNATIONAL ECONOMICS**

Course Objectives: The course is designed to provide a general understanding of the fundamentals of International Trade Theories along with the balance of payment concepts, crisis and various policy measures to correct the same. It also provides overview of the working of foreign exchange market, determination of exchange rate and different terms related with the foreign exchange market. The course introduces the main features of the international economic institutions and enables them to critically understand role and functions of those institutions.

**COURSE CODE: ECOILC603, GROUP-II : ELECTIVE PAPER, PAPER NO – XV,
INDUSTRIAL AND LABOUR ECONOMICS-I**

Course Objectives : Issues pertaining to the labour market, wage policy, trade unions and amicable solutions to industrial disputes have become vital for developing countries, especially for India, where the bulk of the labour force is employed in the unorganized sector, and the organized sector is witnessing a phenomenon of 'jobless' growth. This paper intends to provide knowledge of the same

and also discusses the importance of labour welfare and social security measures for the growing labour force in India.

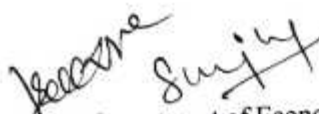
**COURSE CODE: ECORDC604, GROUP-II : ELECTIVE PAPER, PAPER NO – XVI,
RURAL DEVELOPMENT Course Objectives :** This course would help to understand the various types of relationships in rural area. The learners will understand the basic issues in rural development. The course sheds light on a range of new developments and a host of issues studied by generations of rural area experts. The course is constructed from the point of rural development arrangement.

**COURSE CODE : ECOEEA605, GROUP-II : ELECTIVE PAPER, PAPER NO – XVII,
ENVIRONMENTAL ECONOMICS – II**

Course Objectives : This paper introduces vital aspects related to environmental degradation and advocates the need for environmental accounting. The paper also focuses on the attainment of SDGs.

**TYBA ECONOMICS (SEMESTER-VI),
COURSE CODE: ECOEMA606, GROUP-II : ELECTIVE PAPER, PAPER NO – XVIII,
ECONOMY OF MAHARASHTRA-II**

Course Objectives : This paper enables the students to get awareness on the infrastructural aspects and policy related issues. The paper also throws light on the regional imbalances within the state.


Department of Economics
Head
Department of Economics
S. M. D. L. College, Kalamboli.




Principal
PRINCIPAL
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College, Kalamboli,
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Shikshan Maharshi Dadasaheb Limaye Arts, Commerce and Science College ,
Kalamboli

Program Outcomes – B.A. Marathi

Academic year – 2021-22

Department of Marathi	After Successful completion of three year degree program in Marathi Student should be able to
Program Outcomes	<ol style="list-style-type: none">१. विशिष्ट कालखंडातील संहित्यामगिळ प्रेरणा आणि प्रवृतीचे ज्ञान करून घेणे.२. अभ्यास करण्याची क्षमता विकसित होते.३. जागतिकीकरणाच्या काळात बदलत्या क्षेत्रांना सामोरे जाण्यासाठी भाषिक क्षमता विकसित करता येते.४. विविध प्रकारची लेखनकौशल्ये शिकता येतात.५. साहित्याचा आस्वाद कसा घ्यावा याची क्षमता विकसित होते.६. टीका किंवा समीक्षा कशा पद्धतीने करावी याचे ज्ञान वृद्धिंगत होते.७. मराठी साहित्यात काळानुरूप येणारे विविध प्रवाह माहीत होतात.
Program Specific Outcomes	<ol style="list-style-type: none">१. या प्रवाहाची कारणमीमांसा करता येते.२. वाङ्मयीन अभिरुची संपन्न होते.३. संशोधन कसे करावे व कोणत्या पद्धतीने करावे याविषयी दृष्टी विकसित होते.४. प्रसार मध्यमांसाठी लेखन कसे करावे याविषयी ज्ञान मिळते.५. व्यक्तिमत्व विकासामध्ये भाषिक कौशल्याचा कसा उपयोग करता येईल याची माहिती होते.



Course Outcomes B.A. Marathi	
Course	Outcomes After completion of these students should be able to
मराठी (अनिवार्य)	<ol style="list-style-type: none"> १. मराठी साहित्यातील विविध वाङ्मयीन परंपरा माहीत होतात. २. मराठी साहित्याबाबत आवड निर्माण होते. ३. विविध साहित्य प्रकारांचा परिचय होतो. ४. मराठी भाषेचे व्यक्तिमत्व विकासातील महत्व लक्षात येते. ५. व्यावहारिक मराठी शिकण्यातून मराठी शुद्धलेखन व व्यवहारातील लागणारे औपचारिक ज्ञान प्राप्त होते.
मराठी (ऐच्छिक) अभ्यासपत्रिका क्रं -३ सत्र - ३ (भाषा आणि बोली) सत्र - ४ (मराठी व्याकरण आणि लेखनकौशल्ये)	<ol style="list-style-type: none"> १. मानवी भाषा, समाज व संस्कृती यांचा अन्योन्यसंबंध के याची माहिती होते. २. मानवी भाषेच्या स्वरूपाची ओळख होते. ३. बोलीच्या अभ्यासाची गरज जाणून घेता येते. ४. विविध बोलीचा अभ्यास केल्याने मराठी भाषेच्या समृद्ध परंपरेची ओळख होते. ५. मराठी व्याकरण आणि लेखन कौशल्ये विकसित होतात. ६. स्पर्धा परीक्षेसाठी उपयुक्त अभ्यास असल्यामुळे विद्यार्थी त्याकडे चंगळे लक्ष देतात. ७. स्पर्धा परीक्षेसाठी विद्यार्थ्यांना वेगळा अभ्यास करण्याची गरज पडत नाही.
मराठी विशेषस्तर अभ्यासपत्रिका क्रं. ७ - भाषाविज्ञान व मराठी व्याकरण	<ol style="list-style-type: none"> १. भाषाविज्ञानाची ओळख होते. २. भाषेच्या अभ्यासाचे महत्व समजून घेता येते. ३. भाषेच्या प्रमुख अंगांचा परिचय करून घेता येतो. ४. मराठी व्याकरणातील सखोलता लक्षात येते. ५. व्याकरणाच्या विविध तत्वांचा सविस्तर परिचय होतो. ६. व्याकरण आणि भाषाविज्ञान यातील महत्वाचा भेद लक्षात येतो.



<p>मराठी विशेषस्तर अभ्यासपत्रिका क्रं. ८- आधुनिक मराठी साहित्य</p>	<ol style="list-style-type: none"> १. आधुनिक साहित्याचा परिचय होतो. २. वेगवेगळ्या रुपबंधाचे आकलन होते. ३. कथा, कविता, कादंबरी व नाटक या चार साहित्य प्रकारांचा अभ्यास करता येतो. ४. वेगवेगळ्या आशयानुरूप आलेल्या साहित्याचा त्यानुसार विचार करण्याची दृष्टी निर्माण होते. ५. सामाजिक व भाषिक अवकाश विकसित होतो.
<p>मराठी विशेषस्तर अभ्यासपत्रिका क्रं. ९ - व्यवसायभिमुख मराठी</p>	<ol style="list-style-type: none"> १. पूर्णतः व्यवसायाभिमुख अभ्यास करता येतो. २. भाषांतर संकल्पना कळते व व्यवसायात त्याचा कसा उपयोग करता येईल हे समजते. ३. मराठीतील भाषिक कौशल्याचा वापर करून प्रसार माध्यमांद्वारे कामाच्या संधी मिळतात. ४. मुलाखत, ग्रंथपरीक्षण यासारख्या घटकांचा व्यावसायिकदृष्ट्या चांगला उपयोग करून घेता येतो. ५. स्वमत व्यक्त करण्याचा सराव होतो.



Subject Teacher



Head of the Department

Head

Department of Marathi
S. M. D. L. College, Kalamboli,



Principal

Principal
S E S' S. M. Dadasaheb Limaye
ACS College, Kalamboli
Tal. Panvel, Dist. Raigad



Department of commerce
Academic Year 2021-22
Programme specific outcome

1. Knowledge about the specific terms in business communication.
2. Acquired practical and theoretical knowledge in accounting.
3. Knowledge about the principles of management and theory of Management.
4. Knowledge in accounting principles and Standards.
5. Knowledge in auditing principles and techniques.
6. Identify solution in Math's and stats.
7. Knowledge about the specific items in business law.
8. Knowledge about the basic concepts of capital budgeting, calculation of working capital.
9. Learning basic knowledge and practical application in income tax and GST.
10. Acquainted students with the various aspects of international trade, foreign exchange market, recent foreign exchange rate policy.

Shomey

Head of the Department
Head
Department of Commerce
S. M. D. L. College, Kalamboli.

Pr. S. Y. Limaye

Principal
PRINCIPAL
S.E.S.'s S. Y. Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

**Department of Commerce
Academic Year 2021-22
PROGRAM OUTCOME**

1. Specific knowledge about trade and Commerce.
2. Information and intelligence in accounting standards and principles.
3. Skill enhancement through business communication.
4. Calculation of company account.
5. Accounting knowledge through cost accounting, Management Accounting and finance accounting.
6. Basic information about internal audit, company audit, auditing techniques, principles of audit.
7. Knowledge about the specific terms in export marketing.
8. Legal knowledge in business through the business law.
9. Knowledge about stock Market.
10. Theoretical and practical knowledge through direct and indirect tax.
11. Knowledge about basic concepts in marketing.
12. Enhance the knowledge in business economics.

Sahamaj

**Head of the Department
Head**
Department of Commerce
S. M. D. L. College, Kalamboli.

S. K. Limaye

PRINCIPAL
S. Principal Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad,
Tal : Panvel, Dist : Raigad.

Department of Commerce
Academic Year 2021-22
Course outcome

1. To identify solution in Math's and Statistics.
2. To solve critical problems in accounting.
3. To provide best practices in EVS.
4. To know about business and service sector.
5. To know specific principals in management and theory of Management.
6. To provide basic in business communication skill.
7. To know about basic practice in business law.
8. To provide knowledge in financial and stock market.
9. To you know the basic in marketing and human resource management.
10. To provide basic facts in export marketing.
11. Knowledge about the specific terms in business economics.
12. To know theory and practical in taxation.
13. To develop skills to operate as an advertising professional in ad agency.
14. To get students acquainted with basic concept in GST.
15. To get the knowledge in calculation of cost per unit in cost accounting.



Head of the Department
Head
Department of Commerce
S. M. D. L. College, Kalamboli.



Principal
PRINCIPAL
S.E.S.'s S. M. D. L. Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

SES's
Shikashan Maharshi Dadasaheb Limaye, Arts, Commerce and Science
College, Kalamboli.

Program Outcomes and Course Outcomes

Academic Year : 2021-22

Name of the Faculty : - Dr. Usha Sainger

Class :- S.Y. B.Sc.

Sub :- Foundation Course

SEMESTER -III

PROGRAM OUTCOMES

- 1) Students would become more sensitive and more sensitized towards various socioeconomic issues faced by vulnerable groups.
- 2) Students would get clarity on disaster management measures and be better prepared in challenging situations.
- 3) The topic would make the students not to believe in superstitions and develop scientific temper.
- 4) Students would understand the significance of communication in daily life which will help to build their career.

COURSE OUTCOMES

- 1) To make students examine the socio-economic problems faced by vulnerable groups, the various constitutional and legal rights and Redressal mechanisms available to them.
- 2) To educate students on various aspects of disaster and the steps in disaster management with special reference to Indian case studies.
- 3) To foster interest in science and technology with development of scientific temper and attitude.
- 4) To help students to examine the various aspects of interpersonal as well as business communication.

SEMESTER - IV

PROGRAM OUTCOMES

- 1) Students would be aware of their rights and remedies in relation to social life.
- 2) Students would develop a deeper understanding of ecological issues and would motivate them to be a part of environmental conservation.
- 3) To instill skills like critical thinking, communication, initiative which potentially leads to long-term benefits such as higher rates of employment and educational fulfillment.
- 4) The topics would equip them with necessary life skills and the abilities needed to succeed in the competitive outer world.
- 5) Students would develop curiosity in the application of science and technology in their daily life and would use technology wisely.

COURSE OUTCOMES

- 1) To provide students an idea about the contemporary rights of Indian citizens.
- 2) To sensitize students towards recent trends in ecological studies.
- 3) To illustrate the students about new types of technologies used in day to day life with a brief idea about misuse of technology and ways to avoid it.
- 4) To make students identify the various competitive examinations to shape their career necessary life skills such as time management, goal setting etc.

Wk

SUBJECT TEACHER

Wk

HEAD OF DEPARTMENT



H. S. Kulkarni
PRINCIPAL

PRINCIPAL

Dr. S. M. Dadasaheb
ACS College, Kalamburji
Kalamburji, Dist. Palghar

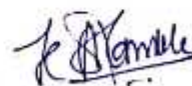
Department of Chemistry
2021-2022

PROGRAMME SPECIFIC OUTCOME

- PSO-1 Students will understand the application and impact of the chemistry in societal & environmental contexts, and demonstrate it's knowledge and need for sustainable development.
- PSO-2 Students will learn to apply ethical practices such as limited and safe use of hazardous chemicals, responsibility towards environmental and health safety.
- PSO-3 Students will learn various techniques to perform scientific experiments as well as accurately record and analyse the results of such experiments.
- PSO-4 To develop skills to solve and understand the principles in qualitative & quantitative analysis in chemistry.
- PSO-5 The students will have sound understanding of fundamental & application based principles and theories in physical, inorganic, organic & analytical chemistry.
- PSO-6 Students will learn various techniques to perform scientific experiments as well as accurately record and analyse the results of such experiments.



Head
Department of Chemistry
S. M. D. L. College, Kalamboli.



PRINCIPAL
S.E.S.'s S. M. Dadasaheb Limaye
College, Kalamboli,
Tal : Panvel, Dist : Raigad.

Department of Chemistry
2021-2022

Course Outcome

- CO1 Detailed knowledge of ionic and covalent bonding with respect to VBT, MOT
- CO2 Detailed study of stereochemistry with respect to optical and geometrical isomerism and study of aromatic compounds
- CO3 Basic concept of Thermodynamics and Thermochemistry, chemical equilibrium and kinetic theory of gases
- CO4 Types of errors, accuracy, precision, chromatography, titrimetry, Analysis of water & fertilizers
- CO5 study of stereochemistry with respect to conformational isomerism, Study of carboxylic acids, cyanides, aldehydes and ketones and their reactions
- CO6 Detailed study of gravimetry, Inorganic qualitative analysis and conductometric titration
- CO7 Knowledge of electrolytic conductivity transport number, Surface tension refractive index, surface chemistry
- CO8 Basics of co-ordination Chemistry with respect to VBT and CFT, Catalysis,
- CO9 Basics of Quantum Chemistry Electrochemical cell & their application & photophysical phenomenon
- CO10 Study of soft and hard acids and bases, organometallic compounds and inorganic polymers
- CO11 Detailed study of spectroscopic technique for Structure determination of organic compounds.
- CO12 Chemicals thermodynamics & its application idea about structure of solids.
- CO13 Studying inorganic reaction mechanism, metallurgy and nuclear chemistry and bio-inorganic chemistry
- CO14 Knowledge of some basic name reaction and synthetic reagent and pharmaceutical introduction of natural products
- CO15 Some analytical techniques like chromatography, electroplating, flame photometry & their application.

Head
Department of Chemistry
S. M. D. L. College, Kalamboli.




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College, Kalamboli
Tal. Panvel, Dist. Raigad.

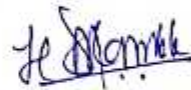
Department of Chemistry
2021-2022

PROGRAMME OUTCOME

- PO-1. Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry
- PO-2 Students able to use modern library referencing and retrieval method to obtain information about topics.
- PO-3 Understand the importance of the Periodic Table of the Elements, how it came to be, and its role in organizing chemical information.
- PO-4 Understand the interdisciplinary nature of chemistry and to integrate knowledge of mathematics, physics and other disciplines to a wide variety of chemical problems.
- PO-5 Learn the laboratory skills needed to design, safely and interpret chemical research.


Head
Department of Chemistry
S. M. D. L. College, Kalamboli.




PRINCIPAL
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College, Kalamboli,
Tal : Panvel, Dist : Raigad.

SES's

Shikshan Maharshi Dadasaheb Limaye College of Arts Commerce &
Science, Kalamboli.

Year:-2021-2022

Department of Chemistry
Course Outcomes

Class: F.Y.B. Sc. Chemistry

Semester I

Course (Paper) Name and No.: Paper I Inorganic

CO1 Learn Rutherford atomic model and Bohr theory with its limitation.

CO2 Describe the structure of hydrogen atom.

CO3 Explain hydrogen energy levels, shells, subshells and orbitals.

CO4 Explain shielding effect and effective nuclear charge.

CO5 Understand Aufbau principle.

CO6 Classify the elements as the main group, transition and inner transition elements.

CO7 Explain periodicity in properties for atomic and ionic size.

CO8 Describe electron gain enthalpy and ionization enthalpy.

CO9 Describe electronegativity by Pauling, Mulliken and Alfred Rochow method

Course (Paper) Name and No.: Paper II

CO1 Explain what is meant by main group elements.

CO2 Learn and explain metallic and non-metallic nature of main group elements.

CO3 Understands the concept of electronegativity of main group elements

CO4 Learn about what is meant by anomalous behavior and anomalous behavior of second period elements.

CO5 Understands and explain allotropic modifications of group — 14, 15 and 16 elements

CO6 Learn about the concept of diagonal relationship between 2nd period elements and 3rd period elements.

CO7 Get the knowledge about chemistry of carbides, oxides and hydrides of group I and group II elements.

CO8 Learn and explain the preparation, properties and uses of some important compounds like NaHCO_3 , Na_2CO_3 , NaCl , NaOH , CaO and CaCO_3 ,

CO9 Know the general environmental aspects of oxides of carbon, oxides and oxyacids of sulphur and nitrogen.

CO10 Get the knowledge about Photochemical smog, Acid rain, Global warming its control techniques and health hazards.

Course (Paper) Name and No.: Practical

CO1 Determine the strength of Na_2CO_3 and NaHCO_3 in a solution of two by titration with standard acid.



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- CO2 Determine the strength of commercial sample of acid.
CO3 Calculate and report the amount of acetic acid an Organic acid sample by titrimetric method
CO4 Determine the percentage purity of ZnO containing ZnCO₃.
CO5 Determine the percentage purity of BaSO₄ containing NH₄Cl.

Semester II

Course (Paper) Name and No.: Paper I Inorganic

- CO1 describe concept of qualitative analysis like precipitation equilibria, common ion effect etc.
CO2 describe introductory part of coordination compounds as well as terminology in coordination compounds.
CO3 classify the ligands.
CO4 describes Arrhenius, Lowry Bronsted , Solvent — Solute concept of acids- bases.
CO5 explain hard and soft acids and bases with applications.
CO6 understand mechanism of organic reactions like Friedel acylation / alkylation.
CO7 explain calculations of titration curve involving strong acid and strong base.

Course (Paper) Name and No.: Paper II

- CO1 Explain the types of chemical bonds and can do the comparison between ionic and covalent bonds.
CO2 Define polarizability (Fajan's rule) and can understands the shapes of molecules.
CO3 Draw the Lewis dot structure
CO4 Explain the Sidgwick Powell Theory and basic VSEPR theory for AB_n type molecules with and without lone pair of electrons
CO5 Understands the isoelectronic principles, applications and limitations of VSEPR theory.
CO6 Understands the concept of Reduction potentials: half reactions, balancing redox reactions
CO7 Explain Redox stability in water by: i) Latimer and Frost diagrams ii) pH dependence of redox potentials.
CO8 Understands the applications of redox chemistry like:
i) extraction of elements (example: isolation of copper by auto reduction)
ii) redox reagents in volumetric analysis I₂ and KMnO₄
iii) titration curves: i) single electron system ii) multi electron system

Course (Paper) Name and No.: Practical

- CO1 Analysis qualitatively cations and anions from a sample.
CO2 to determine the percentage of copper (II) present in a given sample by titration.



Shikshan Maharshi Dadasaheb Limaye College of Arts Commerce &
Science, Kalamboli.

Year:-2021-2022

Class: S.Y.B. Sc. Chemistry
Semester

III Course (Paper) Name and No.: General Chemistry - I

- CO1 Explain Ionic Bonding and conditions for formation of ionic bond;
- CO2 Explain Types of ionic crystals with examples,
- CO3 Apply Radius ratio rule in structure determination;
- CO4 Explain Lattice energy and factors affecting Lattice energy;
- CO5 Calculate Lattice energy using Born-Lande equation and Kapustinskii equation,
- CO6 Represent Born-Haber cycle for the formation of ionic bond;
- CO7 Appreciate Importance of Born-Haber cycle
- CO8 Explain the Valence Bond approach for the formation of covalent bond;
- CO9 Appreciate postulates of Valence Bond theory;
- CO10 Describe formation of H_2 molecule and potential energy curve;
- CO11 Explain the formation of mononuclear diatomic molecules;
- CO12 Define the term resonance and give conditions for resonance;
- CO13 Understand the concept of formal charge;
- CO14 Explain the different types of hybridization and draw shapes of simple covalent molecules;
- CO15 Understand equivalent and non-equivalent hybrid orbitals;
- CO16 Compare atomic orbitals and molecular orbitals
- CO17 Understand linear combination of atomic orbitals

Course (Paper) Name and No.: General Chemistry-II

- CO1 Explain preparation of simple boranes.
- CO2 Describe structure and bonding in diborane and tetraborane.
- CO3 Explain synthesis of borax.
- CO4 Describe occurrence, structure and inertness of SiO_2 .
- CO5 Prepare silicon tetrachloride and describe its structure.
- CO6 Explain occurrence and extraction of Germanium.
- CO7 Explains concept of preparation of extra pure Silicon or Germanium.
- CO8 Explain trends in chemical reactivity.
- CO9 Describes Bosch - Haber process for synthesis of ammonia.

Course (Paper) Name and No.: Practical

- CO1 Paper II: Inorganic Chemistry Discuss Identification of cations in a given mixture and Analytically separating them [From a mixture containing not more than two of the



following: Pb(II), Ba(II), Ca(II), Sr (II), Cu(II), Cd(II), Mg(II), Zn(II), Fe(II), Fe(III), Ni(II), Co(II) Al(III), Cr(III)]

CO2 Understand practical aspect of Preparation Crystallization of potassium iodate and to estimate its purity before and after the separation.

CO3 Appreciate Estimation of total hardness

CO4 Describe. Investigation of the reaction between Copper sulfate and Sodium Hydroxide (Standard EDTA solution to be provided to the learner).

Semester IV

Course {Paper) Name and No.: General Chemistry I inorganic

CO1 learn the position of transition metals in the periodic table; natural occurrence principal ores and minerals

CO2 Know the electronic configurations of transition elements

CO3 Appreciate the relative stability of various oxidation states in terms of electrode potential values

CO4 Describe Origin of color for transition metals and their compounds

CO5 Explain magnetic properties of transition metal compounds

CO6 Describe the Chemistry of Titanium and vanadium with respect to occurrence, extraction and properties of Oxides and chlorides

CO7 Understand its use in titrimetric analysis

CO8 Understand the qualitative tests for various transition metal ions-1st transition series

CO9 Know the meaning of basic terms in Coordination Chemistry

CO10 Explain Types of ligands,

CO11 Explain characteristics of complex ions

CO12 Learn the rules of nomenclature of coordination compounds.

CO13 Write the rules formulas and names of coordination compounds

CO14 Define Different Types of isomerism in coordination compounds

CO15 Understand the nature of bonding in coordination compounds in terms of VBT

CO16 Appreciate the importance and applications of coordination compounds in our day to day life

CO17 Appreciate the postulates of Werner's coordination theory;

CO18 Explain EAN rule and eighteen electron rule;

CO19 Distinguish inner orbital complexes and outer orbital complexes

Course {Paper) Name and No.: General Chemistry-II

CO1 Explain concept of hydration of anions with respect to effect of charge and radius.

CO2 Explains physical properties of concentrated oxoacids.

CO3 Describes uses and environment aspects of concentrated acids like sulfuric acid, nitric acid and phosphoric acid.

Course {Paper) Name and No.: Practical

Paper II: Inorganic Chemistry

CO1 Compare Inorganic preparation ion -Nickel dimethyl glyoxime using microscale method



CO2 Understand Complex cation - Tris (ethylene diamine) nickel (II) thiosulphate
CO3 Discuss Complex anion - Sodium Hexanitrocobaltate (III) The aim of this experiment is to understand the preparation of a soluble cation (sodium) and a large anion hexanitrocobaltate(III) and its use to precipitate a large cation (potassium)
CO4 Understand practical aspect of Preparation Inorganic salt - Calcium or magnesium oxalate using PFHS technique



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SES's

Shikshan Maharshi Dadasaheb Limaye College of Arts Commerce &
Science, Kalamboli.

Year: -2021-2022

Class: T.Y.B. Sc. Chemistry

Course (Paper) Name: Inorganic Chemistry

- CO1 describe molecular symmetry and concept of point group
- CO2 explain different types of point group with examples
- CO3 Appreciate importance of symmetry in chemistry
- CO4 Explain lattice energy and factors affecting lattice energy
- CO5 Assign the point group for given molecule
- CO6 Describe molecular orbital theory of heteronuclear diatomic molecules
- CO7 Compare homonuclear and heteronuclear diatomic molecules
- CO8 Understand application of molecular orbital theory to poly atomic species
- CO9 Explain important terms viz. crystal lattice, lattice point, unit cell and lattice constants;
- CO10 Explain seven basic crystal systems
- CO11 Explain closest packing of rigid spheres and different types of closest packing of rigid spheres
- CO12 Calculate the packing density of different types of cubic unit cells
- CO13 Describe the imperfections in solids and their effect on properties
- CO14 Explain consequences of frenkel and Schottky defects and differentiate them;
- CO15 Explain the terms superconductivity, transition temperature and meissner effect;
- CO16 Explain different types of super conductors
- CO17 Give application of superconductors;

Semester VI

Course {Paper} Name and No.: Inorganic Chemistry

- CO1 Explain merits and Limitations of Valence Bond Theory.
- CO2 Explain the shapes of d- orbitals
- CO3 Explain the basic concepts of Crystal Field Theory
- CO4 Explain the Splitting of d orbitals in different geometries;
- CO5 Calculate Crystal field stabilization energy (CFSE), for octahedral complexes
- CO6 Describe Distortions from the octahedral geometry
- CO7 Crystal field splitting parameters Δ : its calculation and factors affecting it in octahedral complexes, Spectrochemical series



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- CO8 Explain Consequences of crystal field splitting on various properties of metal complexes of the first transition series.
- CO9 Explain Limitations of CFT;
- CO10 Explain Evidences for covalence in metal complexes
- CO11 Understand Molecular Orbital Theory for coordination compounds:
- CO12 Identify the central metal orbitals and their symmetry Suitable for formation of sigma bonds with ligand orbitals.
- CO13 Construct ligand group orbitals
- CO14 Construct- 6 molecular orbitals for an ML₆ complex
- CO15 Explain Effect of π -bonding on complexes
- CO16 Understand Thermodynamic and kinetic stabilities of metal complexes;
- CO17 Explain Stability constants: stepwise, overall stability constants, their interrelationship.
- CO18 Explain Factors affecting thermodynamic stability of complexes.
- CO19 Compare Inorganic and organic reactions
- CO20 Explain Types of reactions in metal complexes.
- CO21 Describe Inert and labile complexes;
- CO22 Correlate electronic configurations and stability of complexes.
- CO23 Explain Ligand substitution reactions considering Associative and Dissociative mechanisms.
- CO24 Explain Acid hydrolysis, base hydrolysis and anation reactions
- CO25 Describe origin of electronic spectra
- CO26 Describe the different types of electronic transitions in coordination compounds:
- CO27 Learn the Selection rules for electronic transitions.
- CO28 Appreciate rules for determination of ground state term.
- CO29 Determine Terms for p² and d¹ electronic configurations



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Department Of Microbiology

Academic Year 2021-2022

Course Outcomes for B.Sc. (Microbiology,

CBCS Program Learning Outcomes

1. Students of the B.Sc. (Honours) Microbiology programme will learn to use scientific logic as they explore a wide range of contemporary subjects spanning various aspects of basic microbiology such as Bacteriology, Virology, Biochemistry, Microbial Physiology, Immunology, Cell Biology, Molecular Biology, Genetics, Systems Biology, Immunology and Molecular biology, in addition to becoming aware of the applied aspects of microbiology such as Industrial Microbiology, Food and Dairy Microbiology, Environmental Microbiology and Medical Microbiology to name just a few.
2. Students will appreciate the biological diversity of microbial forms and be able to describe/explain the processes used by microorganisms for their replication, survival, and interaction with their environment, hosts, and host populations. They will become aware of the important role microorganisms play in maintenance of a clean and healthy environment. They will learn of the role of microorganisms in plant, animal and human health and disease.
3. Students will gain knowledge of various biotechnological applications of microorganisms and will learn of industrially important substances produced by microorganisms. They will gain familiarity with the unique role of microbes in genetic modification technologies.
4. Students will become familiar with scientific methodology, hypothesis generation and testing, design and execution of experiments. Students will develop the ability to think critically and to read and analyze scientific literature.
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6. Students will develop proficiency in the quantitative skills necessary to analyze biological problems (e.g., arithmetic, algebra, and statistical methods as applied to biology)
7. Students will develop strong oral and written communication skills through the effective 2 presentation of experimental results as well as through seminars.
8. Graduates of the B.Sc. (Honours) Microbiology programme will be informed citizens who can understand and evaluate the impact of new research discoveries in the life sciences, and will be able

to pursue a wide range of careers, including biological and medical research in higher education institutions as well as careers in public and global health, scientific writing, environmental organizations, and food, pharmaceuticals and biotechnology industries.

9. Students will gain knowledge about the different cell organelles of microorganisms and their detailed functions.

10. Students will also study the growth and control of microbes as well as different bacteriological techniques involved in microbiology.

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PROGRAM OUTCOMES

1. Apply Specialized Microbiology Knowledge from Multiple Fields to Critically Analyze and Evaluate Microbiological, Environmental, and Health-Related Problems: Knowledge and skills gained through such courses as Immunology, Virology, Microbial Ecology, Microbial Genetics and Biotechnology, Aquatic Microbiology, and The Human Microbiome will equip microbiology graduates to help solve some of the world's most pressing problems involving food, water, disease, and the environment.

2. Demonstrate Competency in Routine and Specialized Microbiological Laboratory Skills Applicable to Microbiological Research or Clinical Methods, Including Laboratory Safety and Accurately Reporting Observations and Analysis: Recent laboratory-related outbreaks of *Salmonella*, food outbreaks of *Campylobacter* and *E. coli* O157, and spread of antibiotic resistant pathogens in hospitals all provide strong evidence of the vital importance of microbiological safety skills across many fields. Working with microbial pathogens involves inherent risk. After taking required 300- and 400-level lab courses, microbiology graduates will have the specialized skills to handle microbes safely, in research and laboratory settings.

3. Communicate Scientific Concepts, Experimental Results and Analytical Arguments Clearly and Concisely, both Verbally and in Writing: Clear and accurate science communication, both to scientists and to the public, influences the future direction of research science and medicine as well as laws and policies. Microbiology majors will have opportunities throughout their programs to practice this. In the current era of the internet, microbiology graduates will be able to cut through misinformation.

4. Practice Flexible Professional Skills Needed for Careers in Microbiology and Related Scientific and Professional Fields: Microbiology graduates will have explored their options for interesting careers, professional programs, and graduate programs, and through their participation in required classes and elective clubs, internships or research, will have developed the professional and "soft" skills needed to gain their objectives.

Program Specific Outcome PSO1

1. PSO1. An education in cell biology will impart knowledge to the students to understand origins of cells and the generation of cell diversity, as well as the common features of cellular structure and function – how they obtain energy, synthesize new molecules, communicate, proliferate and survive. It will also emphasize on the fundamental importance of cell biology in modern science, particularly in relation to cell technologies and health. Basic knowledge of structure and functions of major bio-molecules will be taught. Understanding of metabolic pathways (catabolism as well as anabolism), their diversity and how these are specifically regulated and interrelated in different cells.

2. PSO2. Students will understand the importance of microbiology which is an integrated part of Biotechnology. All the genetic manipulation of genes is carried primarily with the help of micro-organisms, hence, understanding the growth kinetics, their physiology and genetics is needed for better understanding the Molecular biology and genetic engineering. Students will become familiar with the tools and techniques of genetic engineering- DNA manipulation enzymes, genome and transcriptome analysis and manipulation tools, gene expression regulation, production and characterization of recombinant proteins
3. PSO3. An education on developmental biology will impart extensive knowledge to the students with basic concepts that occur within all living organisms, and fundamental processes of fertilization of an egg cell and its step-by-step transformation into the fascinating complexity of a whole organism. By studying developmental biology along with physiology students will gain an understanding of the causes, diagnosis and treatment of disease, and how they affect different parts of the body. Developmental Biology along with Physiology addresses the key challenge of population health.
4. PSO4. Students will imbibe the importance of plant biotechnology regarding basic as well as advance knowledge about the in vitro culture, maintenance and preservation of plant cells, tissues and organs. The techniques of haploid, triploid and somatic hybrid plant production and their manipulation for quantitative and qualitative improved traits. Molecular Plant Physiology and Developmental Biology course provides an insight for manipulation of vital plants processes to enhance photosynthesis, to overcome photorespiration, improving nutrient use efficiency and nitrogen fixation. Further, course exposes the students to the 'omics' studies of various abiotic stress responses and development of stress resistant crop plants to boost their production in era of global climatic change. The molecular basis of division and differentiation of plant stem cells into different plant organs has also been covered in this course.
5. PSO5. The main outcome of the course is to provide basic understanding of immunology and immune responses in response to various infectious and non infectious diseases. Immunology is important subject of Biotechnology, which can help us to better understand human health. This paper can also facilitate to clear NET and JRF exam as many questions are being asked on immunology. In fact, immunology and biology of infectious diseases are two core subjects of Medical Microbiology/Biotechnology that provide a scaffold of medical research. By studying 'Diagnostics', the main goal is to provide the basic idea of diagnosis of infectious as well as non-infectious diseases so that early treatment is initiated to avoid unnecessary morbidity and mortality. The major outcome to study the environmental biotechnology is to understand the current applications of biotechnology to environmental quality evaluation, monitoring and remediation of contaminated environments. An education in environmental biotechnology aid the students to identify and implement solutions to these problems and mitigation of human impact on the environment. Interdisciplinary nature of the bioinformatics course offers substantial understanding of both the biological sciences and the physical and mathematical sciences



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Department Of Microbiology

Academic Year 2021-2022

Course Outcomes for B.Sc. (Microbiology,

CBCS Program Learning Outcomes

1. Students of the B.Sc. (Honours) Microbiology programme will learn to use scientific logic as they explore a wide range of contemporary subjects spanning various aspects of basic microbiology such as Bacteriology, Virology, Biochemistry, Microbial Physiology, Immunology, Cell Biology, Molecular Biology, Genetics, Systems Biology, Immunology and Molecular biology, in addition to becoming aware of the applied aspects of microbiology such as Industrial Microbiology, Food and Dairy Microbiology, Environmental Microbiology and Medical Microbiology to name just a few.
2. Students will appreciate the biological diversity of microbial forms and be able to describe/explain the processes used by microorganisms for their replication, survival, and interaction with their environment, hosts, and host populations. They will become aware of the important role microorganisms play in maintenance of a clean and healthy environment. They will learn of the role of microorganisms in plant, animal and human health and disease.
3. Students will gain knowledge of various biotechnological applications of microorganisms and will learn of industrially important substances produced by microorganisms. They will gain familiarity with the unique role of microbes in genetic modification technologies.
4. Students will become familiar with scientific methodology, hypothesis generation and testing, design and execution of experiments. Students will develop the ability to think critically and to read and analyze scientific literature.
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Department of History

Programme

M. A HISTORY

- **PO (Programme Outcome)**
- **PSO (Programme Specific Outcomes)**
- **CO (Course Outcome)**

Academic Year 2021-22

PROGRAMME OUTCOMES

(Programme: M .A. History)

- PO -1** The students acquire knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough.
- PO -2** The M.A. (History)Post graduates will be acquainted with the social, economic, historical, geographical, political, ideological and philosophical tradition and thinking.
- PO -3** The program also empowers the graduates to appear for various competitive examinations or choose the post graduate programme of their choice
- PO -4** The M. A. (History) program enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity
- PO -5** The students will be ignited enough to think and act over for the solution of various issues prevailed in the human life to make this world better than ever
- PO -6** Programme provides the base to be the responsible citizen
- PO -7** Through the PG programme the students will come know about research in Historical Aspects. It may also provide the information to the students for collection of Data, enquiry, primary and secondary methods of collection of data, classification and tabulation of data, Authenticity & Credibility of Sources Students get knowledge of Historical research methods as well as knows about how to write historical research paper and can realize the importance of research to find solutions of a specific issue.

PROGRAMME SPECIFIC OUTCOMES

(Programme: M.A. History)

On completing M.A. History, the student will be able to:

PSO -1 Understand the historical events and issues of Europe, India and Maharashtra

PSO -2 Understand historiography, historical methods, research methodology and sources which are important to interpret historical events

PSO -3 Conduct research using interdisciplinary approach

PSO -4 Understand knowledge systems in pre modern India, human rights movements, environmental history and issues, Gender and women's movements and feminist methodologies

PSO -5 A history Post graduate can find employment with Archaeological Survey of India or with private firms related to archaeology.

PSO -6 For History graduates, the option of public service is always open.

PSO -7 Develop the ability to distinguish between fact and fiction while understanding that there is no one historical truth.

PSO -8 It will enable students to understand the the intellectual, Cultural, economic, political development of Modern World, India, Maharashtra.

COURSE OUTCOMES
(Programme: M .A. History)

On completing the course, the student will be able to:

M.A I
Semester I

Course: M.A I

Course Title: Core Paper I. – Research Methods in History

CO 1: Students know the basic scientific methodology and tenets as implemented in history writing.

CO 2 Understand the historical trends in early, medieval and modern Europe

CO 3: Identify the nature of Annales historical approaches including history of mentality and History of Everyday life

CO 4: Explain the concept and approaches of post positivism, anti-foundationalism and discourse analysis and Foucault's concept of history and Subaltern Approaches to History

Course: M.A I

Course Title: Core Paper II: Social, Economic and Administrative History of Early India (up to 1000 CE)

CO 5: enable students to understand with the evolution of socio-cultural, religious and political processes in the early Indian past on the basis of which the plural Indian society was formed.

CO 6: Understand the Economic, Political, Cultural Transformation in Early India.

CO 7 Students know about Religious and Political Evaluation in Early India.

Course: M.A I

Course Title: Core Paper III: Social, Economic and Administrative History of Medieval India (1200 CE – 1700 CE)

CO 8: facilitate students with the evolution of socio-cultural, religious and political processes in Medieval Indian past and introducing them to important social, cultural ideas and institutions.

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CO 13: facilitate students with the evolution of socio-cultural, religious and political processes in Modern Indian History as well as impact of British rule in India.

CO 14 "Social, Economic and Administrative History of Modern India (1757 CE – 1947 CE) " topic as a part of History is a very important section as far as the Syllabus of any competitive examination is possible, especially Civil Services exams.

CO 15. Students understand of the stages of development in Modern India, why certain events happened and analysis of the consequences of such developments that paves an impact on our society, economy and our political system.

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**M.A II
Semester – III**

Course: Elective Group I (M.A II)

Course Title: History of Architecture in Medieval India

CO 17. Students will get an overall understanding of the development of the Medieval Art and Architecture.

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CO 23: understand the factors leading to the rise of Nationalism. To understand the constitutional development and the rise of new forces.

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Course: Elective Group IV (M.A II)

Course Title: Socio – Economic and Cultural History of India (1850 CE - 1947 CE)

CO 26: understand the Social and Economic development of Colonial India and the immediate years after Independent.

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Course Title: History of Modern Europe

CO 28: Orient the students with political history of Modern Europe.

CO 29: Understand the economic transition in Europe during the 18th and 19th Century Europe.

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**M.A II
Semester – IV**

Course: Ability Enhancement Course VI:

Course Title: Sources in Historical Research

CO 35: understand the historiography and theory related to historical research, writing, and presentation

CO 36: The course focuses on building basic skills for conducting historical research including locating, utilizing, and analysing sources

CO 37. Guidelines for Citation and Historical Writing are discussed.

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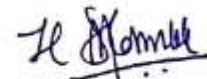
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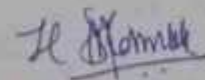
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