AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SAMAJ'S

SHRI MULIKADEVI COLLEGE, NIGHOJ

TAL.PARNER DIST.AHMEDNAGAR

Department of Marathi

Course Outcomes

Programs offered

Sr. No.	Program	Program Objectives	Program Specific Objectives
1	**BA Marathi**	Develop Competency In Literary Forms. (I.E. Marathi Poetry, Autobiography, Novel, Short Story, Drama & Performing Prose) Develop Reading, Writing & Communication Skills In Marathi. Get Information About The History Of Saint Literature. Get Information About Literary Theories. Get Information About The History Of Modern Marathi Literature. Apply The Study Of Marathi Linguistics & Grammar In Their Practical Life. Study News Writing For Media. Nurture Themselves In Soft Skills And Develop Research Aptitude. Find Jobs For Their Livelihood Be Motivated For Their Further Education.	After successful completion of two year degree program in Marathi student

Courses offered

Sr. No.	Course	Course Outcomes
1	**FYBA-I Sem** **Marathi Sahitya : Katha Ani Bhashik Kaushalya Vikas**	• Develop Marathi reading & linguistic comprehension of students. • Develop interest in literature fiction and story. • Inculcate moral and human values within themselves. • Understand the types of Marathi Short Story Writing.
	FYBA-II Sem **Marathi Sahitya : Ekankika Ani Bhashik Kaushalya Vikas**	• Develop Reading, Writing & Communication skills of students • Develop attitude of literary forms Marathi Poetry. • Understand the basic forms of fiction and Poetry. • Students learn Values through literary work
2	**SYBA I Sem** **Bhashik Kaushalyavikas Ani Aadhunik Marathi Sahityaprakar : Kadambari**	• Develop Attitude of Literary forms in Marathi Novel. • Information about the history of modern • Marathi Literature. • Information about Literary Theory. • Develop the Novel reading skills.
	SYBA II Sem **Bhashik Kaushalyavikas Ani Aadhunik Marathi Sahityaprakar : Lalit Gadya**	• Develop Attitude of Literary forms in Marathi Aatmkathan. • Get information well known writer in Marathi. • Get information about the autobiography.
3	**SYBA S1- I Sem** **Adhunik Marathi Sahitya : Prakashvata**	• Get information about Acidnyapattra. • Get information about Shivaji Maharaj. • Get information well known writer Ramchadra Pant Amatya. • Know the concept Gadya Vangamaya.
	SYBA S1 - II Sem **Madhyayugin Marathi Sahita : Nivadak Madhyaayugin Gadya, Padya**	• Know the concept Padya Vangamaya. • Get information about Sant Poet & their literature. • Get information about Sant literature forms. • Get information well Known Poet Sant Chokhamela, Sant Janabai, Sant Narhari Sonar etc.

4	**SYBA S2 - I Sem** **Sahiya Vichar**	• The students develop interest in literature • Information about the ancient Marathi Literature. • Know the concept and process of Literature. • Know Western Poetry Structure in ancient and modern era.
	SYBA S2 - II Sem **Sahitya Samiksha**	• Information about the history of Marathi Literature. • Know the concept & process Literature. • Know the Indian Literature structure in ancient and modern era. • Increase vision regarding literary value.
5	**TYBA I Sem** **Bhashik Kaushalyavikas Ani Aadhunik Marathi Sahityaprakar : Pravasvarnan**	• Know the concept of Drama. • The students learn the origin of drama as dramatics art. • Students are acquainted with the language, style, dialogue structure of the age to which it belongs. • Students learn value through literary works.
	TYBA II Sem **Bhashik Kaushalyavikas Ani Aadhunik Marathi Sahityaprakar : Kavita**	• Introduce to the Minor genres such as one act play. • Use literature to develop their social and moral sense in life. • Develop attitude of literary forms.
6	**TYBA S3I Sem** **Madhyayugin Marathi Vangmayacha Sthul Itihas : Prarambh te Isavi san 1600**	• Know the Types of Marathi Vagamaya. • Study the socio-cultural & Political background on from 1600. • Know the brief literature in same period.
	TYBA S3 II Sem **Marathi Madhyayugin Vangmayacha Sthul Itihas : Isavi san 1601 te 1817**	• Study the socio-cultural & political background on from 1601 to 1817. • Know the brief literature in same period. • Know the various literary form in same period. • Know the importance of language.
7	**TYBA S4 I Sem** **Varnanatmak Bhashavidnyan : Bhag 1**	• Know the importance of language in human life. • Know the various methods to the study of language. • Understand the communication process and method. • Develop Attitude of Marathi Linguistics &Grammar.

	Varnanatmak	
	TYBA S4 II Sem **Bhashavidnyan : Bhag 2**	• Know the concept of Linguistics. • Know the importance of language in human life. • Know the various methods to the study of language. • Understand the communication process and method.
8	**SYBSC I Sem** **Upyojit Marathi**	• Develop literary tendencies. • Understand the types of Marathi Short Story Writing, • Get information about the Khandekar Short Story. • Know the concept and process of literature.
	SYBSC II Sem **Marathi Sahitya**	• Students get the knowledge of the theatre of the times. • The students learn the origin of drama and dramatics art. • The students learn the aspects and genres of drama. • Develop Attitude of literary forms.

AHMEDNAGARJILHAMARATHAVIDYAPRASARAKSAMAJ'S

SHRI MULIKADEVICOLLEGE,NIGHOJ

TAL.PARNERDIST.AHMEDNAGAR

Department of Hindi

Course Outcomes

Programs offered

Sr.No.	Program	Program Objectives	Program SpecificObjectives
1	BAHindi	I.ProgramOutcomeofBachelorofArts(B.A.)StudentseekingadmissionforB.A.programmeisexpectedtoimbuewithfollowingqualitywhichhelpsthemintheirfuturelifetoachievetheexpectedGoals. a.Realizationofhumanvalues.b.Senseofsocialservice.c.Responsibleanddutifulcitizen.d.Criticaltempere.Creativeability	Oncompletionof B.A(Hindi),Studentsareabletoo: 1. Tounderstandthebasicconceptandsubjectof Hindi&its origin 2. Tomake or nottheimportanceofsubject Hindi&itsBranches. 3. Tounderstandvariousaspectof Hindiliteraturewithaprocesstoreachmethod andgivingnewmodeanddirection. 4. Tomakeaattemptindifferentareaandtheorysuchasvocabularyandviceversa 5. TounderstandintheLiteraturemoreinaborderareasthen Maryconfinedtosubject. 6. ToknowaboutHindiliteratureitsrootscauseperspectivesandmethods. 7. Elaborating andunderstanding itsphilosophicalmethodsofHindiLiterature. 8. EvaluatingtheconceptofHindifrompasttopresentandmakingthesocietymorecloselythroughliterature.

Coursesoffered

Sr.No.	Course	CourseOutcomes
1	**FYBAHindiGeneralPaper-1(G1)GeneralHindi(1097)**	1. IntroducestudentstobasicwritinginHindi. 2. CultivateinterestinHindiliteratureamongstudents. 3. Introducevarioustypesofliteraturetostudents
2	**SYBAHindiGeneralPaper-2(G2)Story,PoetryandWritinginHindi(2097)**	1. Developabilitytoappreciatestories,poemsandplaysin Hindi. 2. Developcloseunderstandingofvariousgenresin Hindi literature. 3. Familiarizelearnerswiththesocio-politicalcontextsofvarious Hindiwriters. 4. InstillnationalisticvaluesamongstudentsthroughthestudyofHindiliterature.
3	**SYBAHindiSpecialPaper-I(S-1)DevelopmentofHindiLanguage(2098)**	1. IntroducevariousaspectsofHindilanguageandenablethemtohandlethelanguagewithaccuracyandprecision. 2. Introducebasictheoriesoflinguisticstostudents. 3. IntroducestudentstoHindiasthenationallanguageandfamiliarizethemwithvariousagenciesthatpromoteHindiasthenationallanguage.

4	**SYBAHindiSpecialPaper-II(S2)Novel,Dramaand MedievalPoetry(2099)**	1. Introducestudentstovariousliteraryformsin Hindisuch as novelsand dramas. 2. Enhancetheabilitytoappreciate Hindipoetry,novelsand dramas. 3. IntroducethemedievalBhaktiMovementandthepoetsandwritersassociatedwithit. 4. Familiarizethelearnerswiththeliteraryoutputofmajor writersof themedievalperiod.
5	**TYBA HindiGeneralPaper-III(G-3) GeneralHindi(3097)**	1. Familiarizestudentswithliterarycriticalterminologyused in Hindi. 2. Enhanceskilloftranslatingvarioustypesoftextsfrom otherlanguages. 3. Enhancetheabilitytodraftofficialandscientificdocuments in Hindi.
6	**TYBA HindiSpecialPaper-III(S-3)HistoryofHindi Literature(3098)**	1. Familiarizewiththerichhistoryandtraditionof Hindiliterature. 2. Identifyandunderstandthevariousphasesinthehistoryofhindiliteratureandthesalientfeaturesofeachofthesephases. 3. Familiarizewiththedevelopmentandprogressof Hindi languageand literature.
7	**TYBA HindiSpecialPaper-IV(S4)Poetics(3099)**	1. Familiarizestudentswithvariousaspectsofliterature,itspurposeandmodesofappreciation. 2. Impartknowledgeoftheoriesandtypesofliteratureand literarycriticism. 3. Familiarizestudentswithfiguresofspeechandtheirusagein poetry

AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SAMAJ'S

SHRI MULIKADEVI MAHAVIDYALAYA, NIGHOJ

TAL.PARNER, DIST.AHMEDNAGAR.

Department of English (A11)

Programs offered: B.A. English (Credit Pattern)

Sr. No.	Program	Program Objective	Program Specific Objectives
01	B.A. English	1. Students are familiarized with different types of literature in English, the literary devices and terms and they understand the literary merit, beauty and creative use of language. 2. Students are familiarized with the basic units of language to become aware of thetechnical aspects and their practical usage. 3. Students are prepared for a detailed study and understanding of literature and language. 4. Development of an integrated view about language and literature.	1. Students are familiarized with excellent pieces of prose and poetry in English to realize the beauty and communicative power of English. 2. Students are exposed to native cultural experiences and situations and develop humane values and social awareness. 3. Development of overall linguistic competence and communicative skills of the students. 4. Students are exposed to the basics of literature and language.

Courses offered

Sr. No.	Course	Course Outcomes
01	FYBA Compulsory English I (11011)	a) To expose students to the best examples of prose and poetry in English so that they realize the beauty and communicative power of English b) To instill human values and develop the character of students as responsible citizens of the world c) To develop the ability to appreciate ideas and think critically d) To enhance employability of the students by developing their linguistic competence and communicative skills e) To revise and reinforce structures already learnt in the previous stages of learning.
02	FYBA Compulsory English II (11012)	a) Students are familiarized with excellent pieces of prose and poetry in English to realize the beauty and communicative power of English. b) Students are exposed to native cultural experiences and situations and develop humane values and social awareness. c) Development of overall linguistic competence and communicative skills of the students. d) Students are exposed to the basics of literature and language.

AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SAMAJ'S

SHRI MULIKADEVI MAHAVIDYALAYA, NIGHOJ

TAL.PARNER, DIST.AHMEDNAGAR.

Department of History (A16)

Programs offered: B.A. History (Credit Pattern)

Sr. No.	Program	Program Objective	Program Specific Objectives
01	**B.A. History (A16)**	PO1. Foster excellence in critical approach towards reading, writing, analyzing and thinking. PO2.Encourage interdisciplinary approaches to learning. PO3. Offer the opportunities for the personality development through clear understanding of self, imbibing values and humanity for active citizenship. PO4.Motivate for community involvement. PO5.Provide innovative courses and curriculum in response to intellectual, social and professional needs for career building. PO6.Promote soft skills among students.	PSO-1. Introduce historical concepts, study techniques in the study of history of Marathas to make it value based, conceptual and thought provocative. PSO-2.To understand Socio-economic, cultural and political background of 17th century Maharashtra . PSO-3.To increase the spirit of healthy Nationalism and Secularism among the student.

Courses offered: B.A. History (Credit Pattern)

Sr. No.	Course	Course Outcomes
01	**F.Y.B.A.** **Semester-I** **Early India: From Prehistory to the Age of the Mauryas** **(Course Code-11171)**	CO1.It attempts to highlight the consequences of the foreign invasions, particularly on the polity, economy, society and art and architecture. CO2.understand the history of early India from the prehistoric times to the age of the Mauryas. CO3.understand the contribution of Early Indians to polity, art, literature, philosophy, religion and science and technology. Co4.It also aims to foster the spirit of enquiry among the students bystudying the major developments in early Indian history.
02	**F.Y.B.A.** **Semester-II** **Early India: Post Mauryan Age to the Rashtrakutas** **(Course Code-11172)**	CO1.understand the history of early India from the prehistoric times to the age of the Mauryas. CO2.The course is aimed at introducing the students to the developments in different parts of India through a brief study of regional kingdoms up to the tenth century C.E. CO3.It attempts to highlight the consequences of the foreign invasions, particularly on the polity, economy, society and art and architecture.
03	**S.Y.B.A.** **Semester-III** **G-II** **History of the Marathas: (1630-1707)** **(Course Code-23174)**	CO1. Student will develop the ability to analysesources for Maratha History. CO2. Student will learn significance of regional history and political foundation of the region CO3. It will enhance their perception of 17th century Maharashtra and India in context of Maratha history. CO4. Appreciate the skills of leadership and the administrative system of the Marathas.
04	**S.Y.B.A.** **Semester-IV** **G-II** **History of the Marathas: (1707-1818)** **(Course Code-24174)**	CO1. Students will be able to analyze the Marathas policy of expansionism and its consequences. CO2. They will understand the role played by the Marathas in the 18th century India CO3. They will be acquainted with the art of diplomacy in the Deccan region. CO4. It will help to enrich the knowledge of the administrative skills and profundity of diplomacy.

05	**S.Y.B.A.** **Semester-III** **S-I** **Medieval India - Sultanate Period** **(Course Code-23171)**	CO1. Provides examples of sources used to study various periods in history. CO2. Relates key historical developments during medieval period occurring in one place with another. CO3. Analyses socio - political and economic changes during medieval period CO4. Estimate the foreign invasion and the achievement of rulers
06	**S.Y.B.A.** **Semester-IV** **S-I** **Medieval India: Mughal Period** **(Course Code-24171)**	CO1. Draws comparisons between policies of different rulers. CO2. Understanding Role of Akbar in the consolidation of Mughal rule in India. CO3. Understand Aurangzeb's conflict with Rajputas, Maratha and weakening Mughals age. CO4. Analyses factors which led to the emergence of new religious ideas and movements (bhakti and Sufi)
07	**S.Y.B.A.** **Semester-III** **S-II** **Glimpses of the Modern World - Part I** **(Course Code-23172)**	CO1. It will enable students to develop the overall understanding of the Modern World. CO2. The students will get acquainted with the Renaissance, major political, socio-religious and economic developments during the Modern World. CO3. It will enhance their perception of the history of the Modern World. CO4. It will enable students to understand the significance of the intellectual, economic, political developments in the Modern World.
08	**S.Y.B.A.** **Semester-IV** **S-II** **Glimpses of the Modern World - Part II** **(Course Code-24172)**	CO1. It will enable students to develop the overall understanding of the Modern World. CO2. The students will get acquainted with the major nationalist movements, the World War II and its consequences, the Cold War and its Consequences. CO3. It will enhance their overall perception of the history of the Modern World. CO4. It will enable students to understand the significance of the strategic political developments in the Modern World.
09	**S.Y.B.A.** **Semester-III** **SEC-I** **Brahmi Script** **(Course Code-23175)**	CO1. Students will learn to understand the Brahmi Script so as to understand important sources of the history of Early India. CO2. They will be able to read and understand the Brahmi Script. CO3. They will have an overall understanding of the history of Early India.

10	**S.Y.B.A.** **Semester-IV** **SEC-II** **Modi Script** **(Course Code-24175)**	CO1. Students will get an overall understanding of the Modi Script. CO2. They will be able to know the history of the Marathas. CO3. They will be able to read and write in Modi Script.
11	**T.Y.B.A.** **Semester-V** **G-III** **Indian National Movement (1885-1947)(Course Code-35174)**	CO1. It will enable students to develop an overall understanding of Modern India. CO2. It will increase the spirit of healthy Nationalism, Democratic Values and Secularism among the Students. CO3. Students will understand various aspects of the Indian Independence Movement and the creation of Modern India
12	**T.Y.B.A.** **Semester-VI** **G-III** **India After Independence- (1947-1991)** **(Course Code-36174**	CO1. It will enable students to develop an overall understanding of the Contemporary India. CO2. To increase the spirit of healthy Nationalism, Democratic Values and Secularism among the students. CO3. Students will understand various aspects of India's domestic and foreign policies that shaped Post-Independence India.
13	**T.Y.B.A.** **Semester-V** **S-III** **Introduction to Historiography** **(Course Code-35171)**	CO1. Students will be introduced to the information and importance of Historiography. CO2. Students will be introduced to the different Methods and Tools of data collection. CO3. Students can study the interdisciplinary approach of History . CO4. Students will learn about the usefulness of History in the 21st century, its changing perspectives, the new ideas that have been invented, and the importance of History in a competitive World. CO5. This curriculum develops Research abilityand process of Research Methodology in History
14	**T.Y.B.A.** **Semester-VI** **S-III** **Applied History** **(Course Code-36171)**	CO1. Students will be introduced to the information and importance of applied history. CO2. Student will learn about the Historical significance of Archaeology and Archives and opportunities in the field of Archaeology and Archives. CO3. Through this course, students will be informed about the opportunities in the field of Media, Museums. CO 4. Students will learn about theusefulness of history in the 21st Century, its changing Perspectives, the new ideas that have been invented, and the importance of History in a Competitive World.

15	**T.Y.B.A.** **Semester-V** **S-IV** **Maharashtra in the 19th Century** **(Course Code-35172)**	CO1. Student will develop the ability to analyse sources for 19th century Maharashtra History. CO2. Student will learn significance of Regional History and Socio- religious reformism foundation of the region. CO 3. It will enhance their perception of 19th Century Maharashtra. CO4. Appreciate the skills of leadership and the Socio-religious System of the Maharashtra.
16	**T.Y.B.A.** **Semester-VI** **S-IV** **History of Maharashtra in the 20thCentury** **(Course Code-36172)**	CO1. Student will develop the ability to analyses sources for 20th Century Maharashtra History. CO2. Student will learn significance of regional history and Socio- Religious Reformism foundation of the region. CO3. It will enhance their Perception of 20th Century Maharashtra. CO4. Appreciate the skills of leadership and the Socio-Religious System of the Maharashtra
17	**T.Y.B.A.** **Semester-V** **SEC-III** **Museology** **(Course Code-35178)**	CO1.The Students will understand the Concepts of Museum ad learn the basic Principles of Museology CO2. The Students will gain Comprehensive Knowledge of the Process of Cringe and Conserving Museum of objects
18	**T.Y.B.A.** **Semester-VI** **SEC-IV** **Heritage Management** **(Course Code-36178)**	CO1. Student will understand over all process of Heritage Management CO2. Student will get the knowledge about scope and the fact of Heritage Management. CO3. The students will enable to understand about legal and commercial framework of Heritage

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SHRI MULIKADEVI MAHAVIDYALAYA, NIGHOJ

TAL.PARNER, DIST.AHMEDNAGAR

Department of Geography

Course Outcomes (2019 Pattern)

Program Offered

Sr. No.	Program	Program objectives	Program specific objective
1	B.A. Geography (2019 Pattern)	To develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities	Understand the nature and basic concept of Geomorphology, Climatology, tourism geography, Regional geography

Course Offered

Sr. No.	Course	Course Outcomes
1	F.Y.B.A. Gg- 110A- Physical Geography (DSE-1) F.Y.B.A. Gg- 110B- Human Geography (DSE-2)	1. The geographical maturity of students in their current and future courses shall develop. 2. The student develops theoretical, applied and computational skills.
2	S.Y.B.A. Gg: 210(A)Environmental Geography I (CC 1C)	1. To create the awareness about dynamic environment among the student. 2. To acquaint the students with fundamental concepts of environment geography for development in different areas. 3. The students should be able to integrate various factors of Environment and dynamic aspect of Environmental geography. 4. To make aware the students about the problems of environment , their utilization and conservation in the view of sustainable development
3	Gg: 210(B)Environmental Geography II (CC 1D)	1. To create awareness about dynamic environment among the students. 2. To acquaint students with the fundamental

		concepts of Environment Geography. 3. To acquaint students about the past, presents and future utility and potentials of natural resources. 4. To make aware students about the problems of environment, its utilization and conservation in the view of sustainable development.
4	Gg: 220(A) Population Geography – I (DSE-1A)	1. To understand the history of population. 2. To introduction of the basic concepts in Population Geography. 3. To understand the types of Population data.
5	Gg: 220(B) Population Geography – II(DSE-1B)	1. To introduce students to the Population Policy of India and China. 2. To understand the Health indicator in India. 3. To acquaint students with the concept of urbanization in population geography. 1. To understand population theories.
6	Gg: 201(A)Practical Geography – I (Scale and Map Projections) (DSE-2A)	1. Develop practical skill and use of map scale and projection. 2. To make students aware of the new techniques, accuracy and skills of map making.
7	Gg: 201(B)Practical Geography – II (Cartographic Techniques, Surveying and Excursion / Village / Project Report) (DSE 1B)	1. Develop practical knowledge and application of cartographical techniques. 2. To make students aware of the new techniques, accuracy and skills of Map Making.
8	Applied Course Of Disaster Management (SEC 2A)	1. To introduce basic concepts and fundamental structure of Disaster Management (DM). 2. To inculcate critical thinking and problem-solving abilities on disaster management. 3. To enable students to assess the situation and design plan for Disaster management
9	Applied Course Of Travel & Tourism (SEC 2B)	1. Students will be able to perform online as well as offline booking and cancellation procedures for different available modes of travel and tourism.

		2. Students will be able to acquire earning skills in tourism industry.
10	Gg-310 (A) Geography of Disaster Management-I (CC1E) Gg-310 (B) Geography of Disaster Management-II (CC1F)	1. To introduce students the concept of disaster & its relation with Geography. 2. To acquaint the students with the utility & application of hazards in different areas & its management. 3. To make the students aware of the need of protection & disaster management.
11	Gg-320 (A) Geography of India –I (DSE 1C)	1. To acquaint the students with geography of our Nation. 2. To make the student aware of the magnitude of problems and Prospects at National level. 3. To help the students to understand the inter relationship between the subject and the society. 4. To help the students to understand the recent trends in regional studied
12	Gg-320 (B) Geography of India –I (DSE 1D)	1. To acquaint the students with geography of our Nation. 2. To make the student aware of the magnitude of problems and Prospects at National level. 3. To help the students to understand the inter relationship between the subject and the society. 4. To help the students to understand the recent trends in regional studied
13	Gg- 301 (A) Practical Geography – I (Techniques of Spatial Analysis) (DSE 2C) Gg- 301 (B) Practical Geography – II (Techniques of Spatial Analysis, Surveying and Excursion / Village / Project Report (DSE 2D)	1. To introduce the basic concepts and techniques of Geographical Analysis. 2. To introduce the students with SOI Toposheets and acquire the Knowledge of Toposheet interpretation. 3. To introduce the students with Weather Maps and acquire the Knowledge of its interpretation. 4. To introduce the students with Aerial Photographs and Satellite Images and acquire knowledge to interpret it . 5. To acquaint students with the spatial and structural characteristics of Practical

		Geography. 6. To explain the elementary and essential principles on field of practical work.
14	Research Methodology – I (DSE 2C)	1. To develop the understanding of the basic concept of research 2. To develop the understanding of the basic framework of sampling and data collection 3. To develop the understanding of various sampling methods and techniques
15	Research Methodology – II (DSE 2D)	1. To identify various sources of information for data collection. 2. Understanding of the conducting survey on various issues and develop the Report writing skill of students

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TAL.PARNER, DIST.AHMEDNAGAR.

Department of Political Science (A15)

Programs offered: B.A. Political Science (Credit Pattern)

Sr. No.	Program	Program Objective	Program Specific Objectives
01	**B.A. Political Science**	The main aim of teaching Political science is to help individuals develop into responsible, critical, reflective and productive citizines. Student's will be able to develop a critical understanding about the nature and philosophy of political science and it's interface with Society.	To increase awareness of career options available with an undergraduate degree in political science; its utility in the public and private sectors; and its value as entry into a range of graduate programs, teaching positions, and legal education

Courses offered

Sr. No.	Course	Course Outcomes
01	F.Y.B.A. Politics 2019 (11016) SEM-I	**a) .**To introduce the students to the basic concepts in Indian Politics. **b)**. To introduce latest concepts in Indian Politics. **c)** It emphasizes on local influence that derive from social stratification of cast,religion,ethic and critically assesses its impact on the political Process. **d)**. To Introduced the students legislative Council, Executive Council, Judiciary Council.
02	F.Y.B.A. Politics 2019 II (11016) SEM-II	a) To acquaint students with the important features of the Constitution of India . b) The basic framework of Indian government. c) To familiarize students with the working of the Constitutionof India.
03	F.Y.B.A. Democracy, Election and Goverance (22999)	a) TO analize Political and policy Problems and formulate policy options. b) Deliver thoughtful and well. articulated Presentations of research findings. **c)** Use Library Search tools to identify scholar articals on country –specific government institutions in a nation state other than .

Sr. No.	Course	Course Outcomes
04	S.Y.B.A. An Introduction To Political Ideology (23163) SEM-III	a) Important sub themes of Political Science as a discipline b) Approaches to study Political Science c) Basic Concepts and Values in Political Science .
05	S.Y.B.A. An Introduction To Political Ideology (23163) SEM-IV	**a**) To introduce the students to the system's Anyalysis, structural Functionlism. **b)** To understand the nature and scope of political Theory. c) Student's will develop on understanding of core political science concepts and theories within mulitiple dicipliniary. **d)**. Critique a contemporary conflict in trerms of the theories and coccepts exposed to in ihe course.
06	**Semester III DSE-1A (3)** WESTERN POLITICAL THOUGHT(23161)	a) Major traditions of thought that have shaped political discourse in different parts of the world. b) The great diversity of social contexts and philosophical visions. c) The history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.

07	**Semester IV DSE-1B (3)** WESTERN POLITICAL THOUGHT(24161)	**a)**This Course examines major texts in the history of Political thought. **b)**In this course ,we examine major texts in western political thought. **c)**To understand the relationship between religion and politics in early modern western.
08	**Semester III DSE-2A (3)** POLITICAL JOURNALISM(23162)	a). Complex relationship between the communication, media and power politics. b). Critical appraisal of practices of political image management, campaigns, propaganda and censorship. c). Indian context of political Journalism
09	**Semester IV DSE-2B (3)** POLITICAL JOURNALISM(24162)	a) Critical appraisal of practices of political image management, campaigns, propaganda and censorship. b) Indian context of political Journalism. .c) Complex relationship between the communication, media and power politics.
10	**Semester III SEC 2A (2)** BASICS OF INDIAN CONSTITUTION (23165)	a) To acquaint students with the important features of the Constitution of India and with the basic framework of Indian government. d) To familiarize students with the working of the Constitution of India. c) TO Undarstand and analys federalism in the Indian Constitution. **d).**Analyze Panchayat raj Institutions as a medium Of Decentralization.
11	**Semester IV SEC 2B (2)** BASICS OF INDIAN CONSTITUTION (24165	a) To understand the stricter and composition of Indian Constitution. . **b)**To understand the emmergance and evolution of Indian. c) This paper focuses in detail on the political

		processes and the actual functioning of the Political System.
12	**Semester VI CC-2 E (3) LOCAL SELF GOVERNMENT IN MAHARASHTRA (35163)**	a)To introduce the students the structure of Local Self Government b) To make students aware about composition, power and functions of local bodies
13	**Semester VI CC-2 E (4) LOCAL SELF GOVERNMENT IN MAHARASHTRA (36163)**	a) To make students aware about composition, power and functions of local bodies b) To introduce the students the structure of Local Self Government.
14	**Semester V DSE 1 C (3)+1 PUBLIC ADMINISTRATION** (35161)	a) This paper is an introductory course in Public Administration. b) The essence of Public Administration lies in its effectiveness in translating the governing philosophy into programmes, policies and activities and making it a part of community living
15	**Semester VI DSE 1 D (3)+1 PUBLIC ADMINISTRATION (36161)**	a) The recent developments and particularly the emergence of New Public Administrations are incorporated within the larger paradigm of democratic legitimacy. b) The importance of legislative and judicial control over administration is also highlighted
16	**Semester V DSE 2 C (3)+1 INTERNATIONAL RELATIONS (35162)**	a) This paper deals with concepts and dimensions of International Relations and makes an analysis of different theories highlighting the major debates and differences within the different theoretical paradigms.

17	**Semester VI DSE 2 D (3)+1 INTERNATIONAL RELATIONS (36162)**	a) The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a unipolar world are included.
18	**Semester V SEC 2C (2) SAMYUKTA MAHARASHTRA MOVEMENT (35164)**	a) This Course is an introduction to the political process in Maharashtra with special reference to regionalism sub-regionalism and Samyukta Maharashtra Movement. b) The aim of the course is that students are expected to understand both the historical evolution of Maharashtra's politics and different analyses of politics of the state.
19	**Semester VI SEC 2D (2) SAMYUKTA MAHARASHTRA MOVEMENT (36164)**	a)It tries to acquiant students with the main issues and concerns in the public life of a regional society as it shaped in the concept of colonialism, nationalism and modernity

AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SAMAJ'S

SHRI MULIKADEVI MAHAVIDYALAYA, NIGHOJ

Tal.Parner, Dist.Ahmednagar.

Department of Economics (A14)

Programs offered: B.A. Economics (Credit Pattern)

Sr. No.	Program	Program Objective	Program Specific Objectives
01	**B.A. Economics**	After successfully completing B.A. Economics Programme students will be able to: **Program Outcomes (PO's)Economics** **PO1** Technical knowledge: use various tools for economic analysis and apply knowledge of the **Micro and Macro** approach for the personal benefit and for the benefit of national and the global economy **PO2** Problem analysis: recognize formulate and study the problems of various sectors of the **Indian Economics Environment** and the global economy with the help of the economic ways of thinking, theories, concepts and laws **PO3** Design/development of solutions: Design policies and solutions for the economic problems of India and Indian Economics Environmentat large. **PO4** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern IT tools for economic analysis	**PSO:** Explain the basic concepts, laws and theories related to the economic behavior of the human being. **PSO**: Inculcate the economic way of thinking. **PSO:** Apply economic analysis in practice.

		PO5 The student and society: Apply the knowledge of economic concepts, laws and theories, for a better economic environment for the society at large. **PO6** Environment and sustainability: develop an economic way of thinking leading to the economic growth, protecting environment with sustainable development **PO7** Ethics: inculcate ethical values in the business and the government sector and define responsibilities and norms in the business environment and the policies of the government in the context of the welfare of the society. **PO8** Individual and team work: work efficiently as an individual, and as a part or leader of a team, having interdisciplinary approach **PO9** Communication: Communicate effectively on the economic activities with the community and the society through the acquiring knowledge of the national and the global economy. **PO10** Project management and finance: apply knowledge of the economic principles, functioning of various sectors of the economy as an individual on various private and government projects and devise sources of finance. **PO11** Life-long learning: understand the nature of any discipline as a continuous process of development and welfare of the human being	

Courses offered

Sr. No.	Course	Course Outcomes
01	FYBA , I- Sem **Indian Economics Environment**- I (11051)	1. . Describe status of agricultural and industrial sector of the Indian economy with special regional reference to the economy of Maharashtra. 2. Explain poverty and unemployment as economic problems in the India and Maharashtra. 3. Describe Factors of production and industrial labour in industrial sector of the Indian economy. 4. Interpret demographic features of the Indian economy and problems. 5. Analyse developments of secondary and tertiary sectors in the economy along with the problems and solutions. 6. regional imbalance and water management. 7. Ability to develop an understanding of the economic environment and the factors affecting economic environment. 8. Ability to compare and contrast Indian Economy with other world economies. 9. At the end of the course, the student should be able discuss and debate on the various issues and challenges facing the Indian Economic Environment.
02	FYBA – II Sem Indian Economics Environment- II (11052)	1. Describe status of the Indian economy as a developing economy in comparison with world economy 2. Recent Trends in Indian Service Sector- Digital Economy, E-Commerce, E- Finance 3. Ability to develop awareness on the various new developments in the different sectors of an economy – agriculture, industry, services, banking, etc. 4. Policy Measures (Two-Three recent Programmes)- Poverty Alleviation Programmes; Employment Generation Programmes; Agriculture Development Programmes, Skill Development Programmes
03	SYBA, I- Sem **Financial System**- I (23153)	1. After successfully completing this course, students will be able to: 2. Descried evolution of modern banking in the west and in India 3. Describe functioning and working of the commercial and cooperative banks. 4. Explain functions and working of the central bank of

		country and Reserve Bank of India. 5. Explain principles of commercial banks, different types of accounts and customers of various types of these banks
04	SYBA, II- Sem Financial System- II (24153)	1. Analyse functioning and usage of various types of negotiable instruments used in financial sector of the economy 2. Explain functions and working of the central bank of country and Reserve Bank of India. 3. Examine supply of money in economy and its control by the Reserve Bank of India. 4. Evaluate developments and challenges in the sector of the cooperative banking India 5. Describe new applications of technology evolved in the banking sector.
05	SYBA, I- Sem **Micro Economics**-I	1. Describe basic economic problems and look towards the economy with the microeconomic approaches 2. Explain division of market from consumer and supply of the products from the producers. 3. Interpret concepts related to utility, demand and supply in market. 4. Analyse process of production in economy, laws and variables related to the production function
06	SYBA, II- Sem Micro Economics- II	1. Demonstrate various forms of market and price determination concept of firm. 2. Describe factors of production involved in process of production and theories related to their pricing. 3. Describe welfare economics, and variables involved in the welfare function and thoughts of the welfare economists. 4. Apply the tools used for economic analysis.
07	SYBA, I- Sem **Macro Economics**- I	1. macroeconomic approach towards economy in contrast with the microeconomic approach 2. Make a detailed enquiry into generation, calculation and measurement of national income 3. Describe way of money facilitates exchanges and develop market and the economy
08	SYBA, II- Sem Macro Economics- II	1. Explain human behaviour creating effective demand which determines level of output and employment in economy. 2. Analyse approaches towards value of money and price level in economy. 3. Interpret causes and controlling measures of cyclical fluctuations in economy

		4. Assess macro policies-monetary and fiscal and its applications in the functioning of the economy. 5. Evaluate developments in theory of employment of economics
09	SYBA, I- Sem SEC **Research Methodology-I**	1. The course will be given in the form of lectures and practical work .Lectures will focus on research, especially with regard to sampling methods, data collection and data preparation.
10	SYBA, II- Sem SEC Research Methodology-II	1. The course will focus on the practical implementation of diverse sample techniques. Students are expected to collect and classify the data.
11	TYBA, I- Sem **Indian EconomicDevelopment-** I	1. To relate and recognize the concept and indicators of Economic Development. 2. To describe and analyze the concept and indicators of Human Development. 3. To explain the characteristics of Developing and Developed Countries. To describe the constraints to the process of Economic Development.
12	TYBA, II- Sem Indian Economic Development- II	1. To describe and explain the process of Economic Planning. 2. To describe and examine the changing structure of planning process in India. 3. To describe and explain the relation between Economic Development and Environment.
13	TYBA, I- Sem **International Economics**-I	1. To relate and recall the concepts of International Economics and International Trade 2. To describe and apply the theories of international trade. 3. To explain and comprehend the issues relating to Terms of trade and Balance of Payment..
14	TYBA, II- Sem International Economics-II	1. Ability to relate and explain the concept of Exchange Rate and Foreign Exchange Market 2. Ability to describe the trends in Growth, Composition and Direction of India's Foreign Trade. 3. Ability to comprehend the issues relating to Foreign Capital and Regional and International Co-Operation

15	TYBA, I- Sem **Public Finance**- I	1. To relate and recognize the Nature and Scope of Public Finance. 2. To describe and analyze the concept of Public Revenue and its components. 3. To explain types of Public Expenditure and reasons for rising Public Expenditure 4. To explain the types of Public Debt and its effects.
16	TYBA, II- Sem Public Finance- II	1. To explain and assess the components and instruments of Fiscal Policy. 2. To relate to the concepts of Budget and its components. 3. To describe and analyze the concept of Deficit Financing and its effects. 4. To describe and explain the Centre and State Financial Relationship..
17	TYBA, I- Sem SEC **Business Management**- I	1. At the end of the Course, the Learner will have the following skills: 2. Management of Business. 3. Business planning and decision making 4. Leadership Skills- Ability to work in teams at the same time, ability to show leadership qualities
18	TYBA, II- Sem SEC Business Management- II (Project Report) II	1. Analytical Skills – Ability to analyze data collected and interpret in the most logical manner 2. Project Report Writing Skills- Ability to comprehend and illustrate/demonstrate findings 3. Presentation Skills – PPT/Poster- Ability to illustrate findings in the most appealing manner 4. Leadership Skills: Ability to show leadership skills with business ideas or work on business ventures as a practical example

AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SAMAJ'S

SHRI MULIKADEVI MAHAVIDYALAYA, NIGHOJ

TAL.PARNER DIST.AHMEDNAGAR

Department of Physics

Course Outcomes (2019 CBCS Pattern)

Programs offered

Sr. No.	Program	Program Objectives	Program Specific Objectives
1	B. Sc. Physics	.To provide in depth knowledge of scientific and technological aspects of Physics · To familiarize with current and recent scientific and technological development · To enrich knowledge through problem solving, hand on activities, study visits, Projects etc. · To train students in skills related to research, education, industry, and market. · To create foundation for research and development in Electronics · To develop analytical abilities towards real world problems · To help students build-up a progressive and successful career in Physics	1. After completion of program, students will be able to have in-depth knowledge of basic concepts in Physics. 2. Students will be able to apply the laws of Physics in real life situations to solve the problems. 3. Students develop aptitude of doing research through undertaking small projects. 4. Student will have set his foundation to pursue higher education in Physics. 5. After completing the program student will have developed interdisciplinary approach and can pursue higher studies in subjects other than Physics

Courses offered

Sr. No.	Course	Course Outcomes
1	**F. Y. B. Sc.** 1. Mechanics and Properties of Matter	1. Demonstrate an understanding of Newton's laws and applying them in calculations of the motion of simple systems. 2. Use the free body diagrams to analyse the forces on the object. 3. Understand the concepts of energy, work, power, the concepts of conservation of energy and be able to perform calculations using them. 4. Understand the concepts of elasticity and be able to perform calculations using them. 5. Understand the concepts of surface tension and viscosity and be able to perform calculations using them. 6. Use of Bernoulli's theorem in real life problems. 7. Demonstrate quantitative problem solving skills in all the topics covered.
	2.. Physics Principles and Applications	1. To demonstrate an understanding of electromagnetic waves and its spectrum. 2. Understand the types and sources of electromagnetic waves and applications. 3. To understand the general structure of atom, spectrum of hydrogen atom. 4. To understand the atomic excitation and LASER principles. 5. To understand the bonding mechanism in molecules and rotational and vibrational energy levels of diatomic molecules. 6. To demonstrate quantitative problem solving skills in all the topics covered.

	3.Physics Laboratory-IA	1. Acquire technical and manipulative skills in using laboratory equipment, tools,and materials. 2. Demonstrate an ability to collect data through observation and/orexperimentation and interpreting data. 3. Demonstrate an understanding of laboratory procedures including safety, andscientific methods. 4. Demonstrate a deeper understanding of abstract concepts and theoriesgained by experiencing and visualizing them as authentic phenomena. 5. Acquire the complementary skills of collaborative learning and teamwork inlaboratory settings.
	4. Heat and Thermodynamics	1. Describe the properties of and relationships between the thermodynamic properties of a pure substance. 2. Describe the ideal gas equation and its limitations. 3. Describe the real gas equation. 4. Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process. 5. Analyze the heat engines and calculate thermal efficiency. 6. Analyze the refrigerators, heat pumps and calculate coefficient of performance. 7. Understand property 'entropy' and derive some thermo dynamical relations using entropy concept. 8. Understand the types of thermometers and their usage.

	5.Electricity and Magnetism	1. Demonstrate an understanding of the electric force, field and potential, and related concepts, for stationary charges. 2. Calculate electrostatic field and potential of simple charge distributions using Coulomb's law and Gauss's law. 3. Demonstrate an understanding of the dielectric and effect on dielectric due to electric field. 4. Demonstrate an understanding of the magnetic field for steady currents using Biot-Savart and Ampere's laws. 5. Demonstrate an understanding of magnetization of materials. 6. Demonstrate quantitative problem solving skills in all the topics covered.
	6.Physics Laboratory-IB	1. Acquire technical and manipulative skills in using laboratory equipment, tools, and materials. 2. Demonstrate an ability to collect data through observation and/or experimentation and interpreting data. 3. Demonstrate an understanding of laboratory procedures including safety, and scientific methods. 4. Demonstrate a deeper understanding of abstract concepts and theories gained by experiencing and visualizing them as authentic phenomena. 5. Acquire the complementary skills of collaborative learning and teamwork in laboratory settings.
2	**S. Y. B. Sc.** 1. Mathematical Methods in Physics I	After the completion of this course students will be able to 1.Understand the complex algebra useful in physics courses 2.Understand the concept of partial differentiation. 3.Understand the role of partial differential equations in physics. 4.Understand vector algebra useful in mathematics and physics

		5.Understand the singular points of differential equation.
	2. Electronics I	1.Apply laws of electrical circuits to different circuits. 2.Understand the relations in electricity 3.Understand the properties and working of transistors. 4.Understand the functions of operational amplifiers. 5.Design circuits using transistors and operational amplifiers. 6.Understand the Boolean algebra and logic circuits.
	3.Physics Laboratory-2A	Whatever the students learned in their theory course of electronics. They need to verify the concept. This course will help to student to verify the concept from theory.
	4 Oscillations, Waves and Sound	1.Solve the equations of motion for simple harmonic, damped, and forcedoscillators. Understand the physics and mathematics of oscillations. 2.Formulate these equations and understand their physical content in a varietyof applications, 3.Describe oscillatory motion with graphs and equations, and use thesedescriptions to solve problems of oscillatory motion. 4.Explain oscillation in terms of energy exchange, giving various examples. 5.Solve problems relating to undamped, damped and force oscillators andsuperposition of oscillations. 6.Understand the mathematical description of travelling and standing waves.

		7.Recognise the one-dimensional classical wave equation and solutions to it. 8.Calculate the phase velocity of a travelling wave. 9.Explain the Doppler effect, and predict in qualitative terms the frequency
	5 Optics	1. Acquire the basic concepts of wave optics. 2. Describe how light can constructively and destructively interfere. 3. Explain why a light beam spreads out after passing through an aperture. 4. Summarize the polarization characteristics of electromagnetic waves. 5. Appreciate the operation of many modern optical devices that utilize wave optics. 6. Understand optical phenomena such as polarization, birefringence, interference and diffraction in terms of the wave model. 8. Analyze simple examples of interference and diffraction phenomena. 9. Be familiar with a range of equipment used in modern optics.
	6. Physics Laboratory-2B	Whatever the students learned in their theory courses such as waves oscillations and sound and optics. They need to verify this concept. This course will help to student to verify the concept from theory.

3.	**T. Y. B. Sc.** 1.Mathematical Methods in Physics II	There are following four modules in this course: 1. Curvilinear Co-ordinates 2. The Special Theory of Relativity 3. Differential equations 4. Special functions This course acts as a foundation for other courses taught in Physics. Under this course the basic and advanced mathematical background required for other courses such as; classical mechanics, quantum mechanics, statistical physics, electrodynamics etc. are taught to the students. After successfully completing this course students get thorough knowledge of basics of curvilinear co-ordinate system, differential equations, special functions and special theory of relativity.
	2.Electrodynamics	After completion of course students should 1. Be able to use method of images in electrostatics to solve the boundary value problems. 2. Should have understood the basic laws in magneto statics like Biot-Savart's law, Ampere's law etc. 3. have understood the concept of magnetic vector potential. 4. Have understood Maxwell's laws of electrodynamics. Be able to solve Maxwell's equations in free space and write equation of plane e-m waves

	3.Classical Mechanics	All the classical concepts are useful and applicable to day today life.
	4.Atomic and Molecular Physics	The study of atoms and molecules has played a major role in the development of physics and in the development of our understanding of the structures of matter as it is encountered in everyday life. On successful completion of this course students will be able to understand about- 1. Development of Atomic structures starts from Rutherford's atomic model up to Vector atomic model. 2. Concept of atomic absorption and emission spectra, spectra associated with hydrogen atom 3. Pauli Exclusion Principle, Spectral notation for quantum states. 4. The concepts of space quantization, Spectra of sodium atom 5. LS and jj coupling schemes associated with two valence electron system. 6. The splitting of atomic energy levels and associated spectral lines when atoms are placed in external magnetic and electric field: Zeeman Effect, Stark Effect. 7. The idea about x-ray spectroscopy, molecular spectroscopy. 8. Details about the Raman Effect and Applications.

	5.Computational Physics	For T.Y.B.Sc., Computational Physics course is a foundation course. In this course, student will learn basic concepts of algorithms and flowcharts, programming in C language, errors in computations and various numerical analysis methods such as, obtaining roots of a function, finding integration. Also, students will get practice of programming through small programs like sorting array, graphics, finding factorial, using functions and pointers etc.
	6.Elements of Materials Science	1To know the general information regarding the properties of materials. 2.be aware of the social, safety and environmental consequences materials 3To solve concepts in Materials Science to solve engineering problems. 4.It is easy to select materials for design and construction for various purposes. 5.Able to identify smart materials and use of them in day today life.
	Physics Laborotory-3A	Whatever the students learned in their theory courses such as electrodynamics, atomic and molecular physics, and classical mechanics. They need to verify this concept. This course will help to student to verify the concept from theory. They have to developed skills to plan experiments for studying the properties of matter like viscosity, Young's modulus and Thermal conductivity.
	Physics Laborotory-3B	Whatever the students learned in their theory course ofcomputational physics. They need to verify this concept. This course will help to student to verify the concept from theory. They able to write and execute simple programs in C language.

	Project-II	The student can learn the basics of the topic chosen for project, to learn how to do literature survey and set up the basic experimental/theoretical and computational techniques needed for the project.
	7.Skill Enhancement Course I- Smart Sensors and Transducer Technology 8.Skill Enhancement Course-II Acoustics Applications	To use concepts in common methods for converting a physical parameter into an electrical quantity To classify and explain with examples of transducers, including those for measurement of temperature, strain, motion, position and light To choose proper sensor comparing different standards and guidelines to make sensitive measurements of physical parameters like pressure, flow, acceleration, etc To predict correctly the expected performance of various sensors To locate different type of sensors used in real life applications and paraphrase their importance To set up testing strategies to evaluate performance characteristics of different types of sensors and transducers and develop professional skills in acquiring and applying the knowledge outside the classroom through design of a real-life instrumentation system. After completion of this course the students will be able to use sound detection and characterization of sounds.
	9.Solid State Physics PH-342:	After completion of course students should 1. Have deep understanding of various types of crystal structures and should have understood the concept of reciprocal lattice. 2. Have clear idea of various characterization techniques like x-ray diffraction, UV-visible spectroscopy, SEM, TGA etc. 3. Have understood the free electron model, band formation and origin of band gap. 4. Be able to understand the theory of magnetism and phenomena like superconductivity.

	10.Quantum Mechanics	For T.Y.B.Sc., Quantum Mechanics course is a foundation course. In this course, student will learn the historical aspects of development of quantum mechanics, understand and explain the differences between classical and quantum mechanics, understand the idea of wave function and the uncertainty relations, solve Schroedinger equation for simple potentials. Also, students will gain a basic understanding of the formalism and 'language' of quantum mechanics especially commutation brackets, various quantum mechanical operators.
	11. Thermodynamics and Statistical Physics	Upon completion of this course, students clearly understand basic principles, be able to see relationships between ideas, and be able to use principles and ideas to calculate properties of simple statistical systems students will learnt assumptions of kinetic theory of gases, transport phenomenon.Thermodynamical functions and Maxwell Relations, Elementary concepts of Statistics such as probability, distribution functions, Gaussian Probability distribution etc. , Statistical distribution of system of particles , Different statistical ensembles: micro canonical, canonical and calculation of mean values in canonical ensembles, Maxwell-Boltzmann's, Bose Einstein , Fermi Dirac Statistics, comparison of the distribution. Problem solving on respective points.
	12.Nuclear Physics	The concepts and techniques may be used for both constructive as well as destructive purposes.
	13.Electronics-II	1. Able to design various circuits which can be used professionally. 2. Able to understand AC, DC current/voltages concept for safety measurements. 3. Able to design various types of power supply, which can be used professionally. 4. Able to design communication systems.

	14.Elective –II Laser	Upon completion of this course, students clearly understand the basic principle of laser, types and characteristics of lasers. They also learn the tremendous applications of lasers in various fields.
	15.Physics Laborotory-4A	Whatever the students learned in their theory courses such as solid state physics, thermodynamics and statistical physics, nuclear physics and quantum mechanics. This course will help to student to verify the concept from theory. They able to acquired necessary skills to design astable multivibrator circuit using IC-555.
	16.Physics Laborotory-4B	Whatever the students learned in their theory courses such as electronics and lasers. They need to verify this concept. This course will help to student to verify the concept from theory. They able to acquired necessary skills to perform experiments like verification of Stephan's Law, Determination of Plank's constant and Redberg's constant.
	17.Project-II	The student can learn the basics of the topic chosen for project, to learn how to do literature survey and set up the basic experimental/theoretical and computational techniques needed for the project
	18.Skill Enhancement Course III-Applications of Internet of Things (IOT)	Students should understand a)IOT concepts b) IOT Standards c) Components of IOT System. d) Relevance of IOT for the future. e) IOT Applications. f) IOT for smart cities (Case study Smart city Barcelona) g) IOT in Indian Scenario h) Challenges in IOT implementation.
	19.Skill Enhancement Course IV-Microcontroller	After successful completion of this course students are supposed to develop their own applications/ mini/ tiny projects using microcontroller.

AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SAMAJ'S

SHRI MULIKADEVI MAHAVIDYALAYA, NIGHOJ

TAL.PARNER, DIST.AHMEDNAGAR

Department of Chemistry

Programs offered: B.Sc. Chemistry (Credit Pattern)

Sr. No.	Program	Program Objective	Program Specific Objectives
01	B.Sc. Chemistry	1.To understand the fundamentals, principles , mathematical concepts included in chemistry and recentresearch development in chemistry. 2. Students are well prepared for a detailed study and understanding the knowledge with chemistry experiments. 3. To understand the different types of chemical reactions. 4. To understand the fundamentals, principles, mathematical concepts and recent developments in the subject area.	1. Students are familiarized with basic concept in chemistry 2. Development in both Chemistry Experiments and handling instruments. 3. Students are observed that what changes in chemical reaction takes place. 4. To inspire and boost interest of the students towards chemistry as the main subject.

Courses offered

Sr. No.	Course	Course Outcomes
01	F.Y.B.Sc. Chemistry I (71310) Physical And Inorganic Chemistry	a) To understand the fundamentals, principles, mathematical concepts and recent developments in the subject area.
02	F.Y.B.Sc. Chemistry II (71320) Organic and Inorganic Chemistry	a) To understand Chemical Reactions and mechanisms. b) To learn periodic table and chemical bonding.
03	F.Y.B.Sc. Chemistry III (71330) Chemistry Practical	a) To acquire skills of handling various tools, instrumentation techniques for chemical analysis
04	Sem I S.Y.B.Sc. Chemistry I (81311)Physical and Analytical Chemistry.	a)To learn the basic concepts related to kinetics and Physical Chemistry b)To impart basic knowledge of photochemistry and its applications understand Nernst Distribution Law and its applications c)To introduce basics of analytical chemistry d) To understand errors and its interpretation e) To disseminate knowledge of qualitative & quantitative analysis of organic and Inorganic compounds
05	S.Y.B.Sc. Chemistry II (81321)Organic and Inorganic Chemistry	a)To understand stereochemistry of Organic Compounds. b)To understand different type of Organic reactions. c) To study principles and process of metallurgy.

06	SEMESTER – II S.Y.B.Sc. Chemistry I(81312) (Physical and Analytical Chemistry)	a) To conceptualize phenomenon of free energy and equilibria. b) To distinguish the behavior of liquid phase solutions. c) To provide basic knowledge essential for volumetric analysis.
07	S.Y.B.Sc. Chemistry II(81322) (Organic and Inorganic Chemistry)	a) To understand different type of Name reactions, Rearrangement Reactions and rules for Product formations.
08	S.Y.B.Sc. Chemistry III(81332)Chemistry Practical	a) To correlate theoretical and experimental knowledge b) Acquired skills of handling various tools, instrumentation techniques for chemical analysis.
09	T.Y.B.Sc. Sem III Chemistry I (91313) Physical Chemistry	a) To learn the basic concepts related to kinetics and chemical and electroChemistry. b)To understand the Meaning and Types of equilibrium such as true or static, metastable and Unstable equilibrium.
10	T.Y.B.Sc.(91323) Chemistry II Inorganic Chemistry	a)To know the Molecular Orbital Theory, VBT, CFT etc. b) Know the meaning of various terms involved in coordination chemistry.
11	T.Y.B.Sc.(91333) Chemistry III Organic Chemistry	a)To know the basics of organic reactions b)To study the different organic reagents. c) To learn the stereochemistry of disubstituted cyclohexane .

12	T.Y.B.Sc. (91343) Chemistry IV Analytical Chemistry	a)Principles of Spectrophotometric analysis and properties of electromagnetic radiations. b) Colorimetry and polarography as an analytical tool.
13	T.Y.B.Sc. (91353)Chemistry V IndustrialChemistry	a) To know the Importance of chemical industries , Various insecticides,Pesticides& Fungicides . b)To know the principals involved in manufacturing process c) To know the Nutritive aspects of food constituents, Food preservation and Food additives d) Various operations involved in the manufacture and compositions e) Properties and uses of special glasses.
14	T.Y.B.Sc. (913E3)Chemistry VI Agriculture Chemistry	a)ToKnow the role of agriculture chemistry and its potential b)Understand basic concept of soil, properties of soil & its classification on the basis of pH. c)Know the different plant nutrients, Their functions and deficiency symptoms.
15	T.Y.B.Sc. Sem IV Chemistry I (91314) Physical Chemistry	a) To know the basics Electrochemical cell with specific examples. b) To know the basics of crystal structure and quantum chemistry.
16	Chemistry II (91324) Inorganic Chemistry	a) Students should know the meaning of term f-block elements, Inner transition elements, lanthanides, actinides. b)The meaning of metal & semiconductor. c) Students should know the homogeneous catalyst and heterogeneous catalysis.
17	Chemistry III (91334) Organic Chemistry	a)Definition and formation of Intermediates. b) To know the Retro synthetic analysis and applications.

18	Chemistry IV (91344) Analytical Chemistry	a)To know Solvent Extraction b) Separation mechanism involved in GSC and GLC c) Separation mechanism involved in adsorption and partition HPLC.
19	Chemistry V (91354) Organic Chemistry	a) Students should know Polymer chemistry. b) The students are expected to learn Importance of sugar industry and Fermentation Industry. c) Students should know about different types of soap detergents and Cosmetics products .
20	Chemistry VI (913E4) Dairy Chemistry	a)Knowing importance of the subject from the point of rural economy. b)Knowing the composition of milk, its food & nutritive value. c) Understanding the Microbiology of the milk. d) Understanding various preservation and adulterants, various milk proteins and their role for the human body. e)Knowing various milk products, their composition, manufacture and uses .
21	Chemistry Practical I (91374)	a)To correlate theoretical and experimental knowledge.
22	Chemistry Practical II (91384)	a) To equip students to correlate theoretical and experimental knowledge.
23	Chemistry Practical III (91394)	a) Acquired skills of handling various tools, instrumentation techniques for chemical analysis .

Courses offered (CBCS 2019 Pattern)

Sr. No.	Course	Course Outcomes
01	F.Y.B.Sc. Chemistry I (CH-101) Physical Chemistry	a) To understand the fundamentals, principles, mathematical and theoretical concepts and recent developments as well as basic knowledge in the subject area.
02	F.Y.B.Sc. Chemistry II (CH-201) Inorganic Chemistry	a) To Understand Hybridisation concepts in inorganic chemistry. b) To learn periodic table and chemical bonding. c) To learn basic knowledge of sigma, pi, delta bonding in inorganic.
03	F.Y.B.Sc. Chemistry I(CH-102) Organic Chemistry	a) To learn general organic reactions b) basic hint of the pathway of reaction mechanism c) To learn basic knowledge of stereochemistry.
04	F.Y.B.Sc. Chemistry II (CH-202) Analytical Chemistry.	a)To introduce basics of analytical chemistry b)To understand errors and its interpretation c) To disseminate knowledge of qualitative & quantitative analysis.
05	F.Y.B.Sc. Chemistry I(CH-103) Chemistry Practical	a)To understand MSDS data sheet. b) Well known about Instrument Handling.

06	F.Y.B.Sc. Chemistry I(CH-203) Chemistry Practical	a) To understand Experiments related to Chemical kinetics b) Calculation regarding Experimental and Theoretical yield.
07	S.Y.B.Sc. Chemistry I(CH-301)Physical and Analytical Chemistry	a) To conceptualize phenomenon of free energy and equilibria. b) To distinguish behavior of liquid phase solutions. c) To provide basic knowledge essential for volumetric analysis.
08	S.Y.B.Sc. Chemistry II(CH-302) Inorganic and Organic Chemistry	a) To understand different type of Name reactions Rearrangements and rule. b)Knowledge regarding Molecular Orbital Theory. c) General Metallurgy Concepts.
09	S.Y.B.Sc. Chemistry III (CH-303) Chemistry Practical	a) To correlate theoretical and experimental knowledge b) Acquired skills of handling various tools, instrumentation techniques for chemical analysis c) Graphical knowledge about performed experiments.
10	S.Y.B.Sc. Chemistry I(CH-401)Physical and Analytical Chemistry	a) To learn the basic concepts related to kinetics and chemical and Electrochemistry. b)To understand the Meaning and Types of equilibrium such as true or static, metastable and Unstable equilibrium.
11	S.Y.B.Sc. Chemistry II(CH-402) Inorganic and Organic Chemistry	a)To know the Molecular Orbital Theory, VBT, CFT etc. b) Knowledge regarding reaction mechanism. c) Know the meaning of various terms involved in coordination chemistry. d) Knowledge Of Structural isomers , functional isomers ,Positional Isomers. e)) To learn the stereochemistry of disubstituted cyclohexane

12	S.Y.B.Sc. Chemistry III (CH-403) Chemistry Practical	a)Complete Qualitative and Quantitative analysis of organic and inorganic Compounds. b)To learn various tests regarding Some specific chemical groups.
13	T.Y.B.Sc. (CH-501) Physical Chemistry-I	a)Principles of Spectrophotometric analysis and properties of electromagnetic radiations. b) To know the basics Electrochemical cell with specific examples. c) To know the basics crystal structure of Solid state and quantum chemistry.
14	T.Y.B.Sc. (CH-502) Analytical Chemistry-I	a)To know Solvent Extraction b) Separation mechanism involved in GSC and GLC c) Separation mechanism involved in adsorption and partition HPLC
15	T.Y.B.Sc. (CH-503) Physical Chemistry Practical -I	a)To understand Experiments related to Chemical kinetics and instrument Calibration method. b) Calculation regarding Experimental and Theoretical yield.
16	T.Y.B.Sc. (CH-504) Inorganic Chemistry -I	a) Students should know the meaning of terms f-block elements, Inner transition elements, lanthanides, actinides. b)The meaning of metal &semiconductor.
17	T.Y.B.Sc. (CH-505) Industrial Chemistry	a) Industrial Visit can be arranged. b) The students are expected to learn Importance of sugar industry and Fermentation Industry. c) Students should know about different types of soap detergents and Cosmetics products.

18	T.Y.B.Sc. (CH-506) Inorganic Chemistrypractical -I	a)Complete Qualitative and Quantitative analysis of organic and inorganic Compounds. b)To learn various tests regarding Some specific chemical groups.
19	T.Y.B.Sc. (CH-507) Organic Chemistry - I	a)Student should know the homogeneous catalyst and heterogeneous catalysis. b) To know the Retro synthetic analysis and applications. C) To study the intermediates.
20	T.Y.B.Sc. (CH-508) Chemistry of Biomolecules	a) Structures of Carbohydrates, Glucose, Nucleis acids. b) Study of Killani Fischer Synthesis.
21	T.Y.B.Sc. (CH-509) Organic Chemistrypractical -I	a)Complete Qualitative and Quantitative analysis of organic Compounds. b) To learn various tests regarding Some specific chemical groups. c)Roles of Reagents can be known.
22	T.Y.B.Sc. (CH-510) SEC-I Polymer Chemistry	a) Students should know Polymer chemistry. b) Long chain and short chain polymers knowledge c) Isotatic, Syndiotatic polymers knowledge.
23	T.Y.B.Sc. (CH-511) SEC-II Environmental Chemistry	a) Various Factors that affect on environment that can be known. b) Types of pollutions that affects on the environment can be studied.

24	T.Y.B.Sc. (CH-601) Physical Chemistry-II	a)Principles of Thermodynamics can be known. b) To know the basic Electrochemical cell with specific examples. c) To know the basics crystal structure of Solid state and quantum chemistry.
25	T.Y.B.Sc. (CH-602) Physical chemistry-III	a)Principles and properties of electromagnetic radiations. b) To know the basics Electrochemical cell with specific examples. c) To know the basic crystal structure of Solid state and quantum chemistry.
26	T.Y.B.Sc. (CH-603) Physical chemistry Practical -II	a) Acquired skills of handling various tools, instrumentation techniques for chemical analysis. b)Well known about electrodes used for instruments.
27	T.Y.B.Sc. (CH-604) Inorganic chemistry-II	a) Various types of Organometalic compounds can be known , b) Acid and Bases Chemistry can be studied.
28	T.Y.B.Sc. (CH-605) Inorganic chemistry-III	a) knowledge of Bioinorganic Chemistry b) Whole Periodic table can be known. c) Coupling Reactions can be studied.
29	T.Y.B.Sc. (CH-606) Inorganic chemistry Practical-II	a)Complete Qualitative and Quantitative analysis of inorganic Compounds. b) To learn various tests regarding Some specific chemical groups. c) Groups like Phosphate, sulphate can be detected with tests.

30	T.Y.B.Sc. (CH-607) Organic chemistry-II	a)Well known about Spectroscopy b) UV , IR , NMR instruments can be known c) Problems related to Spectroscopic data can be solved and known about Doublet, triplet , quartet,…
31	T.Y.B.Sc. (CH-608) Organic chemistry-III	a) Organic Reaction meachanism can be known. b) Electrophilicity and Nucleophilicity known c) Roles of Electron donating and Electron withdrawing groups , Types of Effects in chemistry known. d) Rearrangements Reactions known.
32	T.Y.B.Sc. (CH-609) Organic chemistry Practical- III	a)Complete Qualitative and Quantitative analysis of inorganic Compounds. b)Thin Layer Chromatography (TLC) whole study. c) To learn various tests regarding Some specific chemical groups. d) Chemical Properties of Toxic chemicals can be learned.
33	T.Y.B.Sc. (CH-610) SEC III Chemistry of Soil and Agrochemicals	a)To Know the role of agriculture chemistry and its potential b)Understand basic concept of soil, properties of soil & its classification on the basis of pH. c)Know the different plant nutrients, their functions and deficiency symptoms.
34	T.Y.B.Sc. (CH-611) SEC IV Analytical Chemistry -II	a) Colorimetry and polarography as an analytical tool b)Knowledge about types of Errors , Deviations.

AHMEDNAGARJILHAMARATHAVIDYAPRASARAKSAMAJ'S

SHRI MULIKADEVICOLLEGE,NIGHOJ

TAL.PARNERDIST.AHMEDNAGAR

Department of Botany

Course Outcomes

Programs offered

Sr.No.	Program	Program Objectives	Program Specific Objectives
1	B.ScBotany	**PO1. CriticalThinking:**Thecurriculum madeforthebettermentofthestudents,enhancetheabilityand thinkingpower. **PO2.EffectiveCommunication:**thecompletemediumofprogramisinEnglish,sostudentswillcommunicateinthe same. **PO3.**SocialInteraction:Duetocontinuousfieldvisitsintheinteriorregion'sstudentsinteractwiththesocialactivitiesfortheirstudy. **PO4.Effectivecitizenship:**Beingthebotaniststudentsmustcommunicatewithmanypeople,theybecomemorefamiliaraswellasinteractive. **PO5.Ethics:**Thesubjectteachesstudentsabouttheethicalapproach,nottocutthe plants. **PO6. Environmentandsustainability:**Conservationpracticesarestudiedforsustainabledevelopment. **PO7. Self -directed and life-longlearning:** each and every aspect ofthemoduleteacher'slifelong learning.	**PS01.**ToProvidethroughknowledgeaboutvariousplantgroupsfromprimitiveto highlyevolved. **PSO2.**Tomakethestudentsawareofapplicationsofdifferentplantsinvariousindustries. **PSO3.**Tohighlighttheprotentionalofthesestudiestobecomeanentrepreneurtoequipthestudents withskillsrelatedtolaboratoryaswellasfield-basedstudies. Tomakethestudentsawareaboutconservationandsustainable useofplants. Tocreatefoundationforfurther studiesinBotany.To addressthesocioeconomicalchallengesrelatedtoplantsciences. Tofacilitatestudentsfortaking upandshapingasuccessfulcareerinBotany.

Coursesoffered

Sr.No.	Course	CourseOutcomes
1	**F.Y.B.ScBotany 111.PlantDiversity,PlantMorphology andAnatomy**	• ToProvidethroughknowledgeaboutvarious primitiveplantgroups.
	F.Y.B.ScBotany112 .IndustrialBotany	• Tomakethestudentsawareofapplicationsofdifferentplantsinvariousindustries. • ToHighlightthepotentialofthesestudiestobecomeanentrepreneur.
	F.Y.B.ScBotanyPracticalBO.111andBO.112	• Togetacquaintedwiththesubjectin liveformandvisits toindustries.
2	**S.Y.B.Sc BotanySemester - I211.TaxanomyofAngiospermandPlant Community.**	• ToProvidethroughknowledgeaboutvarioushighlyevolvedplantgroupsandtheircommunitystructure.
	S.Y.B.ScBotanySemester-I 212.PlantPhysiology	• Tostudythedifferentmetabolicprocessfor synthesis of foodmaterial.
	S.Y.B.ScBotanySemester - II221.PlantAnatomy andEmbryology.	• Internalstructurewillbeobservedforfurtherstudiesaswellastostudythedevelopmentalpatternofplant.
	S.Y.B.ScBotanySemester -II S.Y.B.ScBotany 222.PlantBiotechnology	• Thestudyoftechniqueofmultiplicationandnontechniques.
	AnnualPractical S.Y.B.ScBotanyPracticalBO.211,BO.212,BO221and BO222	• Toequippedthestudents withskillsrelatedtolaboratoryaswellasfield basedstudies.
03	**T.Y.B.ScBotanySemester-III BO 351 Algae and Fungi**	• Interprettheperformancecharacteristicsandlifecyclesofvariouslower plants.
	T.Y.B.ScBotanySemester-III BO 352 Archegoniate	• Todeveloptheminfromlower plants to higher plants.

	T.Y.B.ScBotanySemester-III BO 353Spermatophyta andPaleobotany	• Evaluatetheperformanceofvariousli neofevolutionwithrespecttoliveandf ossilforms.
	T.Y.B.ScBotanySemester-III BO 354 Plant Ecology	• Tomakethestudentsawareaboutconservati onandsustainableuseofplants.
	T.Y.B.ScBotanySemester-III BO 355 Cell and Molecular Biology	• Todevelopthemindfromcellular to molecular level.
	T.Y.B.ScBotanySemester-III BO 356 Genetics	• Analyzetheevolutionwithgeneticalchara cteristicsforfutureaspects.
	T.Y.B.ScBotanySemester-III BO 3510 Medicinal Botany	• Tomakethestudentsawareaboutuses of medicinal plants.
	T.Y.B.ScBotanySemester-III BO 3511 Plant Diversity and Human Health	• To get knowledge of comparative study of plants and human.
	T.Y.B.ScBotanySemester-IV BO 361PlantPhysiologyandMetabolism	• Tostudythedifferentmetabolicprocessfo rsynthesisoffoodmaterialindetails.
	T.Y.B.ScBotanySemester-IV BO 362 Biochemistry	• Tostudythedifferentbiochemical processforsynthesisofvarious metabolites.
	T.Y.B.ScBotanySemester-IV BO 363 PlantPathology	• Designdifferentpost-harvestmethodstocopeoverdiseases.
	T.Y.B.ScBotanySemester-IV BO 364 Evolution and Population Genetics	• To study the how and why the frequencies of alleles and genotypes change over time within and between populations.
	T.Y.B.ScBotanySemester-IV BO 365 AdvancedPlant Biotechnology	• Tostudythetechniqueofmultiplicationan dnontechnique.
	T.Y.B.ScBotanySemester-IV BO 366PlantBreeding andSeedTechnology	• Evaluate the performance ofmultiplicationtechniqueandseedstorag etechnique

SHRI MULIKADEVI COLLEGE, NAGOTHANE
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	T.Y.B.ScBotanySemester-IV BO 3610 Nursery and Gardening Management	• To improve the knowledge about nursery and gardening for future planning.
	T.Y.B.ScBotanySemester-IV BO 3611 Biofertilizers	• To study the comparison between chemical fertilizers and biofertilzers for improve the quality of soil as well as crops.

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's

Shri Mulikadevi Mahavidyalaya, Nighoj

Tal-Parner, Dist-Ahmednagar

DEPARTMENT OF ELECTRONICS

Course Outcome 2020-21

Course Offered

Sr.No.	Course	Course Outcomes
1.	**F.Y.B.Sc Electronic** ‘’ Basics of Applied Electronics’’ (EL-111)	1.To identify different parameter/function/specification of components used inelectronic circuits. 2.To solve problems based on network theorems. 3.To perform simulations using simulator for analyzingnetwork performance.
2.	**F.Y.B.Sc Electronics** ‘’Electronic Devices and Circuits’’ (EL-112)	1.To analyze performance parameter based on study of characteristics of electronicdevices like diode ,transisters etc. 2.To choose proper electronic devices as per the need of application. 3.To perform simulations for designing and analyzing diode/transistor circuits.
3.	**F.Y.B.Sc Electronics** ‘’Practical’’ (EL-113)	1. To identify different component and devices as well astheirtypes. 2. To understand basic parameter associated with each devices. 3. To know operation of different instrument used in the laboratory.

		4. To connect circuit and do required performance analysis.
4.	**F.Y.B.Sc Electronics** ''Fundamentals of Digital Electronic'' (EL121)	1.To solve problems based on interconversion of number system 2.To reduse the experession using boolean theorems. 3.To reduced expression using k-map in SOP and POS forms. 4.To undestand how to used flip-flop to build modulus counter.
5.	**F.Y.B.Sc Electronics '' Analog And Digital Device Application** '' (EL-122)	1.To compare different opamp as per specification or performance parameter. 2. To understand opamp circuits and its usefulness indifferent application. 3.To know operating principle of IC 555 in different configurations. 4. To understand different types of DAC and their performance parameters. 5. To study different types of ADC and their performance parameters .
6.	**F.Y.B.Sc Electronics** ''Practical'' (EL-123)	1. To connect opamp circuits and analyyzetheoutput 2.To bild application circuits of opamp. 3. To design the output frequency of IC 555 as a stable/monostable multivibrator. 4. To compare simulated and actual results of given circuit.
7.	**S.Y.B.Sc Electronics** ''Communication Electronics'' (EL231)	1. Understand different blocks in communication systems, types of noise in communication systems and its different parameters. 2. Understand need of modulation, modulation process and amplitude modulation and demodulation methods. 3. Analyse generation of FM Modulation and demodulation methods and comprison between amplitude and frequency modulation. 4. Identify different radio receivers and their

		performance parameters. 5. Solve problems based on AM and FM performance parameters.
8.	**S.Y.B.Sc Electronics** ''Digital Circuit Design'' (EL 232)	1. Distinguish between different logic families based on their performance parameters. 2. Analyze basic combination logic circuit for simple applications 3.Design sequential logic circuit using state diagram,excitation table for identified application
9.	**S.Y.B.Sc Electronics** ''Practical'' (EL233)	1.Describe and exaplion the techniques of generation of AM/FM and demodulation. 2.Desion FSK generation using standard IC XR 2206 refering data manuals 3.Describe and explion the TDM/FDM generation technique. 4.Demonstrate PPM/PWM/PAM and PCM techniques using standard circuit in datd manuals. 5.Desion and built minimum complxity digital circuits using logic gates
10.	**S.Y.B.Sc Electronics** ''Analog Circuits Desion'' (EL-241)	1.Desion single/multistate amplification using transistor and analyze their frequency resonse base on gain-bandwitdth product due to coupling/bypass capacitors 2.Classify and compare different power amplifiers 3.Understand and desion push pull amplfier and need of heat sink. 4.Distinguish between Opamp feedback circuits based on their configuration.
11.	**S.Y.B.Sc Electronics** ''Microcontroller	1.Identify the features and architectural details of microcontrolar(arduiono) 2.Write code/program using open source programming language(arduiono)for basic identified application. 3.Understand programming basic of python programming language. 4.Understand special features of python

	and Python Programming'' (EL242 A)	programming language such as importing modules,directory,tupules
12.	**S.Y.B.Sc Electronics** ''Practical'' (EL243)	1.Describe and explain the desingn procedure of different types of active filters and analyze its frequency responce. 2.Demonstrate positive feedback foroscillator circuits using standard IC's. 3.Desing practical circuits for identified applications. 4.Solve problems using programming techniques of python.

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's

Shri Mulikadevi Mahavidyalaya, Nighoj

Tal-Parner, Dist-Ahmednagar

DEPARTMENT OF MATHEMATICS

Course Outcome 2020-21

Course Offered

Sr.No.	Course	Course Outcomes
1.	**F.Y.B.Sc Mathematics** ''Algebra'' (MT111)	1.To study about sets, relations, equivalence relations, equivalence classes and partition on sets. 2.To study division algorithm, The GCD, The LCM, Euclid Lemma. 3.To study about the primes and the theory of congruence and fermat's theorem. 4.Students will learn about sums and products, basic algebraic properties, module, complex conjugates, exponential form, products and quotients, De-Movier's theorem of complex numbers.
2.	**F.Y.B.Sc Mathematics** ''Calculus I'' (MT112)	1.Identify alberaic and order properties of real number. 2.Identify and apply the function properties of real number system such as competeness property. 3.Verify the values of limit of a function at a point using the definition of alimit. 4.Study will learn sequence and their limits, limits theorems, monotone sequence, subsequences and Bolzano-Wierstrass theorem.
3.	**F.Y.B.Sc Mathematics** ''Practical''	Students will learn how to solve problems using maxima software.

	(MT113)	
4.	**F.Y.B.Sc Mathematics** ''Analytical Geometry'' (MT121)	1.To study about the analytical geometry of 2-D, general equation of second degree in two variables, reduction to standard form, center of conic, nature of conic. 2.Slve the problems of lines in 3-D, Planes, sphere and cylinder, how geometry is related to algebra by using their algebraic equation.
5.	**F.Y.B.Sc Mathematics** ''Calculus II'' (MT122)	1.Identify and apply the intermediate value theorem, mean value theorem, L-Hospital rule, Taylor's Theorem, successive differentiation. 2.To study about the transformation of non linear equations to seperable equations, exact differential equations, integrating factors. 3.To study about the linear first order equation, seperable equations, existence and uniqueness of solutions of non linear equations.
6.	**F.Y.B.Sc Mathematics** ''Practical'' (MT123)	Students will learn how to solve problems using maxima software.
7.	**S.Y.B.Sc Mathematics** ''Calculus Of Several Variables'' (MT231)	1.To study about the function of several variables, limits and continuity. 2.To study about the partial derivatives and differentiability, partial differential equation and wave equation. 3.Student will learn extreme values of functions of two variables, second derivative test, Lagrange multiples. 4.Study about integrated integrals, Fubini's Theorem, double integral in polar condition, Jacobians, Change of varibales in multiple integrals.
		1. Trained to use various numerical and analytical methods. 2.Demonstrate understanding of common numeriacal methods and how they are used

8.	**S.Y.B.Sc Mathematics** ''Numerical Methods & It's Application'' (MT232 A)	to obtain approximate solutions to otherwise intractable mathematical problems. 3.The solutions of diferential equations and nonlinear equations and derive numerical methods for various mathematical operations ans tasks, such as interpolation, differentiation, integration, the solutions of linear. 4.Apply numerical methods to obtain approximate solutions to mathematical problems.
9.	**S.Y.B.Sc Mathematics** ''Practical'' (MT233)	Student will learn how to solve problems using maxima software.
10.	**S.Y.B.Sc Mathematics** ''Linear Algebra'' (MT241)	1.Define basic terms and concepts of matrices, vector spaces. 2.Apply the matrix calculus in solving a system of linear algebraic equations. 3.To understands inner product spaces and linear transformation. 4.To solve problems for orthogonal and orthonormal basis.
11.	**S.Y.B.Sc Mathematics** ''Vector Calculus'' (MT242 A)	1.To study about the curves in space, limits and continuity, integrals of vector functions, unit tangent vector, curvature of plane curve and normal vectors for space curve. 2.Students will learn integrals, additivity, vector fields, gradient fields, work done by a force over a curve in space also path independence, Green's Theorem. 3.To study about parameterization of surfaces, implicit surface, surface integrals, orientation of surface. 4.To study about applications of integrals, Stock's theorem, divergence in 3-D, divergence theorem, unifying the integral theorems.
12.	**S.Y.B.Sc**	Students will learn how to solve problems

	Mathematics ''Practical'' (MT243)	using maxima software.

AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SAMAJ'S

SHRI MULIKADEVI MAHAVIDYALAYA, NIGHOJ

TAL.PARNER, DIST.AHMEDNAGAR.

Department of Zoology (S14)

Programs offered: B.Sc. Zoology (Credit Pattern)

Sr. No.	Program	Program Objective	Program Specific Objectives
01	**B.Sc. Zoology**	Inspire the students for pursuing higher studies in Zoology and for becoming an entrepreneur and also enable students to get employed in the Biological research Institutes, Industries, Educational Institutes and in the various concerning departments of State and Central Government based on subject Zoology	To provide thorough knowledge about various animal sciences from primitive to highly evolved animal groups. To make the students aware of applications of Zoology subject in various Industries. To highlight the potential of various branches to become an entrepreneur. To equip the students with skills related to laboratory as well as field based studies. To make the students aware about conservation and sustainable use of Biodiversity. To inculcate interest and foundation for further studies in Zoology. To address the socio-economical challenges related to animal sciences. To facilitate students for taking up and shaping a successful career in Zoology.

Courses offered

Sr. No.	Course	Course Outcomes
01	**F.Y.B.Sc. Zoology** Paper-I Semester-I	1. The student will be able to understand classify and identify the diversity of animals. 2. The student understands the importance of classification of animals and classifies them effectively using the six levels of classification.
02	**F.Y.B.Sc. Zoology** Paper-II Semester-I	1. The learners will be able to identify and critically evaluate their own beliefs, values and actions in relation to professional and societal standards of ethics and its impact on ecosystem and biosphere due to the dynamics in population. 2. To understand anticipate, analyse and evaluate natural resource issues and act on a lifestyle that conserves nature. 3. The Learner understands and appreciates the diversity of ecosystems and applies beyond the syllabi to understand the local lifestyle and problems of the community. 4. The learner will be able to link the intricacies of food chains, food webs and link it with human life for its betterment and for non-exploitation of the biotic and abiotic components.
03	**F.Y.B.Sc. Zoology** Paper-III Semester-I	1.Recognize the live forms of vertebrates and invertebrates. 2. Analyse and describe zoological concepts, including morphology and anatomy.
04	**F.Y.B.Sc. Zoology** Paper-I Semester-II	.1. The student knows his role in nature as a protector, preserver and promoter of life which he has achieved by learning, observing and understanding life. 2. The working in nature to save environment will help development of leadership skills to promote betterment of environment.

05	**F.Y.B.Sc. Zoology** Paper-II Semester-II	1.The learner will understand the importance of cell as a structural and functional unit of life. 2. The learner understands and compares between the prokaryotic and eukaryotic system and extrapolates the life to the aspect of development. 3. The dynamism of bio membranes indicates the dynamism of life. Its working mechanism and precision are responsible for our performance in life. 4. The cellular mechanisms and its functioning depends on endo-membranes and structures. They are best studied with microscopy
06	**F.Y.B.Sc. Zoology** Paper-III Semester-II	1. Explain conservation and sustainable use of animals; 2.. Explain and demonstrate the impact that animals have on human society
07	**S.Y.B.Sc. Zoology** Paper-I Semester-I	1. The students will be able to understand, classify and identify the diversity of higher vertebrates. 2. The students will able to understand the complexity of higher vertebrates 3. The students will be able to understand different life functions of higher vertebrates.
08	**S.Y.B.Sc. Zoology** Paper-II Semester-I	1. The learner understands the basics about beekeeping tools, equipment, and managing beehives. 2. The learner understands the basic information about fishery, cultural and harvesting methods of fishes and fish preservation techniques.
09	**S.Y.B.Sc. Zoology** Paper-III Semester-I	1. First-hand knowledge about identification of non-chordate and chordate specimens (fresh and preserved) along with larval forms and study of endoskeleton of vertebrates

10	**S.Y.B.Sc. Zoology Paper-I Semester-II**	1. The students will be able to understand the linkage among different groups of higher vertebrates. 2. The student will become aware regarding his role and responsibility towards nature as a protector, to understand his role as a trustee and conservator of life which he has achieved by learning, observing and understanding life.
11	**S.Y.B.Sc. Zoology Paper-II Semester-II**	1. The learner understands the biology, varieties of silkworms and the basic techniques of silk production. 2. The learner understands the types of agricultural pests, Major insect pests of agricultural importance and Pest control practices.
12	**S.Y.B.Sc. Zoology Paper-III Semester-II**	1.Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology 2. Analyse the relationships among animals, plants and microbes

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AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SAMAJ'S

SHRI MULIKADEVI MAHAVIDYALAYA, NIGHOJ

TAL.PARNER, DIST.AHMEDNAGAR.

Department of Computer Science

Programs offered: B.Sc. Computer Science(Credit Pattern)

Sr. No.	Program	Program Objective
01	**B.Sc. Computer Science**	• To develop problem solving abilities using a computer. • To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems. • To train students in professional skills related to Software Industry. • To prepare necessary knowledge base for research and development in Computer Science. • To help students build-up a successful career in Computer Science and to produce entrepreneurs who can innovate and develop software products.

Courses offered

Sr. No.	Course	Course Outcomes
01	**F.Y.B.Sc. Computer Science** Paper-I Semester-I	1. Explore algorithmic approaches to problem solving. 2. Develop modular programs using control structures and arrays in 'C'.

02	**F.Y.B.Sc. Computer Science** Paper-II Semester-I	1. Solve real world problems using appropriate set, function, and relational models. 2. Design E-R Model for given requirements and convert the same into database tables. 3. Use SQL..
03	**F.Y.B.Sc. Computer Science** Paper-III Semester-I	1. Devise pseudocodes and flowchart for computational problems. 2. Write, debug and execute simple programs in 'C'. 3. Create database tables in postgreSQL. 4. Write and execute simple, nested queries.
04	**F.Y.B.Sc. Computer Science** Paper-I Semester-II	1. To study advanced concepts of programming using the 'C' language. 2. To understand code organization with complex data types and structures. 3. To work with files.
05	**F.Y.B.Sc. Computer Science** Paper-II Semester-II	1. Design E-R Model for given requirements and convert the same into database tables. 2. Use database techniques such as SQL & PL/SQL. 3. Explain transaction Management in relational database System. 4. Use advanced database Programming concepts
06	**F.Y.B.Sc. Computer Science** Paper-III Semester-II	1. Write, debug and execute programs using advanced features in 'C'. 2. To use SQL & PL/SQL. 3. To perform advanced database operations.
07	**F.Y.B.Sc. Computer Science** Mathematics Paper I Paper II Paper III Semester-I Semester-II	1. A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology and recognize basic geometrical figures and graphical displays, state important facts resulting from their studies. 2. A student should get a relational understanding of mathematical concepts and concerned structures,

		and should be able to follow the patterns involved, mathematical reasoning. 3. A student should get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences. 4. A student be able to apply their skills and knowledge, that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion. 5. A student should be made aware of history of mathematics and hence of its past, present and future role as part of our culture
	F.Y.B.Sc. Computer Science **Statistics** Paper I Paper II Paper III Semester-I Semester-II	1. To familiarize students with elementary techniques of data analysis - graphical and numerical. 2. To introduce students to measures of central tendency and dispersion, and hence enable them to infer about the nature and characteristics of a particular dataset. 3. To acquaint students with the concept and significance of Index Numbers. 4. To introduce to the students the basic concepts of probability, axiomatic theory of probability, concept of random variable, univariate probability distribution, expectation and moments of probability distribution. 5. To compute the correlation coefficient for bivariate data and interpret it. 6. To fit linear and non-linear curves to the bivariate data to investigate relation between two variables. 7. To understand the concepts of demography. 8. To introduce students to some standard discrete univariate distributions, their properties and applications in real life. 9. To acquaint students with bivariate probability distributions with related concepts. 10. To summarize, analyze and interpret data through various techniques learnt by manual calculations as well as by using MS-Excel.
	F.Y.B.Sc. Computer Science **Electronics** Paper I Paper II Paper III Semester-I	1. To study various types of semiconductor devices, elementary electronic circuits and systems. 2. To bridge the gap between Theoretical and practical knowledge. 3. To get familiar with concepts of digital electronics. 4. To study arithmetic circuits, combinational

	Semester-II	circuits and sequential circuits. 5. To use basic concepts for building variousapplications in electronics. 6. To understand design procedures of different electronic circuits as per requirement. 7. To build experimental setup and test the circuits. 8. To develop skills of analyzing test results of given experiments.

Ahmednagar Jilha Maratha Vidya Prasarak Samaj's
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