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॥ प्रज्वलितो ज्ञानमय प्रदीपः ॥

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Shri. Shahu Shikshan Prasarak Seva Mandal, Peth Vadgaon's



NAAC Accredited - 'A+' (3.41)
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SHRI. VIJAYSINHA YADAV COLLEGE



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Principal : **Dr. Ashok S. Chavan**
M.A.Ph.D.SET

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

SHRI. VIJAYSINHA YADAV COLLEGE PETH VADGAON

DEPARTMENT OF MICROBIOLOGY

UG

PROGRAMME OUTCOME (PO): B. SC. PROGRAMME
OUTCOMES STUDENTS SEEKING

ADMISSION FOR B.SC. PROGRAMME, PERMEATING
FOLLOWING QUALITIES WHICH

HELP THEM IN THEIR FUTURE LIFE TO ACHIEVE THE
EXPECTED GOALS

PO 1 Acquired the knowledge with facts and figures related to various subjects in pure science such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science etc.

PO 2 Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life.

PO 3 acquired the skills in handling scientific instruments, planning and performing in laboratory Experiments.

PO 4 the skills of observations and drawing logical inferences from the scientific experiments. Analyzed the given scientific data critically and systematically and the ability to draw the Objective conclusions.

PO 5 Been able to think creatively (divergently and convergent) to propose novel ideas in explaining facts and figures or providing new solution to the problems.

PO 6 realized how developments in any science subject helps in the development of other Science subjects and vice-versa and how interdisciplinary approach helps in providing better Solutions and new ideas for the sustainable developments.

PO 7 Developed scientific outlook not only with respect to science subjects but also in all aspects related to life.

PO 8 Realized that knowledge of subjects in other faculties such as humanities, performing arts, social sciences etc. can have greatly and effectively influence, which inspires in evolving new scientific theories and inventions.

PO 9 Imbined ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.

PO 10 developed various communication skills such as reading, listening, speaking, etc., which will help in expressing ideas and views clearly and effectively

Paper – I (DSC 25 A) - Introduction to Microbiology After completion of this course, students will be able	
CO 1	To develop a good knowledge of the development of the discipline of Microbiology and the contributions made by prominent scientists in this field.
CO 2	To develop a very good understanding of the characteristics of different types of microorganisms, methods to organize/classify these into and basic tools to study these in the laboratory.
CO 3	To explain the useful and harmful activities of the microorganisms and scope of different branches of Microbiology.
CO 4	To describe characteristics of bacterial cells, cell organelles and various appendages like capsules, flagella or pili.

Paper – II (DSC 26 A) - Basic Techniques in Microbiology After completion of this course, students will be able	
CO 1	To study the staining techniques for the observation of bacteria and bacterial cell components
CO 2	To study the working principle, handling and use of microscopes for the study of microorganisms
CO 3	To understand the principles of sterilization and disinfection of culture media, glassware and plastic ware and other objects to be used for microbiological work

Paper - III (DSC 25 B) - Bacteriology After completion of this course, students will be able	
CO 1	To describe the nutritional requirements of bacteria and other microbes which grow under extreme environments.
CO 2	To understand the basic laboratory experiments to isolate, cultivate and differentiate bacteria
CO 3	To study the preservation of bacteria in the laboratory

Paper - IV (DSC 26 B) - Microbial Biochemistry After completion of this course, students will be able to;	
CO 1	To develop a very good understanding of various biomolecules which are required for development and functioning of a bacterial cell.
CO 2	To develop the knowledge of how the carbohydrates make the structural and functional components such as energy generation and as storage food molecules for the bacterial cells
CO 3	To make well conversant about multifarious structures and functions of proteins, enzymes, lipids and nucleic acids.
CO 4	To differentiate the concepts of aerobic and anaerobic respiration and how these are manifested in the form of different metabolic pathways in microorganisms.

PRACTICAL COURSE Paper I & II: Introduction to Microbiology and Basic Techniques in Microbiology After completion of this course, students will be able to,	
CO 1	To understand the basic techniques in Microbiology laboratory
CO 2	To study the working principle, handling and use of compound microscope for the study of microorganisms
CO 3	To study the simple and special staining techniques for the observation of bacteria and bacterial cell components
CO 4	To understand the working principles and applications various equipment's in Microbiology laboratory
CO 5	To study the preparation, sterilization and use of various culture media.

Paper III & IV: Bacteriology and Microbial Biochemistry After completion of this course, students will be able to,	
CO 1	To understand the basic laboratory experiments to isolate and cultivate
CO 2	To study various biochemical tests used to differentiate bacteria

Paper V - C-9-DSC- 5: Microbial Physiology & Metabolism After completion of this course, students will be able	
CO 1	To make the students to learn concepts of microbial physiology,
CO 2	To develop a good understanding regarding effect of environmental factors on growth of microorganisms
CO 3	To understand the mechanism of transport across microbial cell membrane.
CO 4	To clear the basic concept of microbial metabolism

Paper VI - C9-DSC- 6 : Applied Microbiology After completion of this course, students will be able	
CO 1	To develop the knowledge regarding air microflora and its role and analysis
CO 2	To study water microbiology, water analysis and its purification and disinfection.
CO 3	To study milk microbiology and quality control of milk.
CO 4	To learn the basic understanding of industrial microbiology

Paper VII - C-5:-DSC- 7 : Microbial Genetics & Molecular Biology	
After completion of this course, students will be able	
CO 1	To learn the basic concepts of Microbial genetics.
CO 2	To gain knowledge regarding types of mutation.
CO 3	To demonstrate the model of gene transfer in bacteria.
CO 4	To gain the knowledge about DNA repair and Lac operon.

Paper VIII - C5: DSC- 8 : Basics in Medical Microbiology & Immunology	
After completion of this course, students will be able	
CO 1	To learn about basic concept of medical microbiology.
CO 2	To make aware students about disease.
CO 3	To understand the defense mechanism of vertebrate body.
CO 4	To learn about concept of antigen and antibody

Practical Course III	
After completion of this course, students will be able	
CO 1	To understand basic techniques n special staining.
CO 2	To study the biochemical characteristics of different microorganisms.
CO 3	To study the effect of environmental factors of microorganisms

Practical Course IV	
After completion of this course, students will be able	
CO 1	To study the techniques of bacteriology analysis of water.
CO 2	To understand the primary screening techniques of industrially important microorganisms.
CO 3	To study isolation and identification of pathogens

COURSE IX DSE - E 49 VIROLOGY	
After completion of this course, students will be able	
CO 1	To understand the basic concepts of virology
CO 2	To understand the impact of viruses on plants and animals
CO 3	To know the life cycle of viruses and control strategies

COURSE X : DSE - E 50 - IMMUNOLOGY	
After completion of this course, students will be able to,	
CO 1	Learn cells and organs of the immune system
CO 2	Understand the mechanism of immune system and antibody production
CO 3	Understand the concept of hypersensitivity and autoimmunity

COURSE XI : DSE - E 51 FOOD AND INDUSTRIAL MICROBIOLOGY	
After completion of this course, students will be able to,	
CO 1	Understand role of microorganisms in food preparations and spoilage
CO 2	Learn the scale up of industrial fermented products
CO 3	Learn the downstream processing and product recovery

COURSE XII : DSE - E 52 – AGRICULTURAL MICROBIOLOGY	
After completion of this course, students will be able to,	
CO 1	Learn the applications of microorganism in agriculture
CO 2	Learn the production and applications of Biofertilizers and biopesticide
CO 3	Understand the mechanism of microbial plant diseases

Course XIII DSE F49: MICROBIAL GENETICS	
After completion of this course, students will be able to,	
CO 1	Learn the basic concept of microbial genome
CO 2	Learn the concept of gene expression and regulation
CO 3	Understand the applications of genetic engineering in various fields

COURSE XIV DSE F50: MICROBIAL BIOCHEMISTRY	
After completion of this course, students will be able to,	
CO 1	Understand the basics of enzymes and its role in microbial metabolism
CO 2	Learn the methods for purification of enzymes
CO 3	Learn the impact of various physicochemical parameters on the activity of enzyme

COURSE XV DSE F51: ENVIRONMENTAL MICROBIOLOGY	
After completion of this course, students will be able to,	
CO 1	Understand the different types and characteristics of waste
CO 2	Understand the role of microbes in treatment of sewage / waste
CO 3	Understand the basic biological safety in laboratory and environmental monitoring

COURSE XVI DSE F52: MEDICAL MICROBIOLOGY	
After completion of this course, students will be able to,	
CO 1	Learn the various types of microbial diseases
CO 2	Understand the pathogenesis of microorganisms
CO 3	Understand the mechanism of action of different classes of antimicrobials

Practical Course I, II III & IV	
After completion of this course, students will be able to,	
CO 1	Perform isolation and cultivation of viruses
CO 2	Understand the isolation of mutants in the laboratory
CO 3	Learns the bioassay methods for industrial products
CO 4	Perform lab scale fermentation of industrial products
CO 5	Isolate agriculturally important microorganisms
CO 6	Learn the isolation of pathogens from clinical samples

PROGRAMME SPECIFIC OUT COME

आवश्यक अनुषंगीक निवड(सी.जी.ई.-१,२)

मराठी अभ्यास पत्रिका - १

पीएसओ-1 सी.इ.जी-१,२

बी.ए. भाग १,सत्र -१ व २

पाठ्यपुस्तक- शब्दसंहिता (आवश्यक अनुषंगिक निवड सी.जी.ए. १,२)

विद्यार्थ्यांची मराठी भाषा आणि साहित्यविषयक अभिरुची विकसित करणे

पीएसओ-२ डी.एस.सी. ए.-१,२

बी.ए. भाग १,सत्र -१,२

पाठ्यपुस्तक-अक्षरबंध (विद्याशाखीय विशेष गाभा डी.एस .सी.-ए.१,२)

मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून देणे.

मराठी अभ्यास पत्रिका - ३

बी.ए. भाग २,सत्र -३

साहित्यकृती : देवबाभळी (नाटक)

नाटक या वाङ्मय प्रकाराचे स्वरूप आणि संकल्पना यांचा परिचय करून घेणे

पीएसओ-3 डी.एस .सी.- ३ बी.ए. भाग २ पेपर नं 3

मराठी अभ्यास पत्रिका - ४

बी.ए. भाग २,सत्र -४

साहित्यकृती : पक्ष्यांचे लक्ष्य थवे (पद्य)

मराठी काव्यपरंपरा व प्रवाहांचा आणि यांचा परिचय करून घेणे

पीएसओ-४ डी.एस.सी.- आय.व्ही. बी.ए. भाग २ पेपर नं ४

मराठी अभ्यास पत्रिका - ५ बी.ए. भाग २,सत्र -४

साहित्यकृती : चांदण्यात भिजायचे राहून जाऊ नये, म्हणून! (ललित गध्य)

मराठी ललित गध्य या वाङ्मय प्रकाराचा यांचा परिचय करून घेणे

पीएसओ-५ डी.एस.सी.- .व्ही. बी.ए. भाग २ पेपर नं ५

मराठी अभ्यास पत्रिका - ६

बी.ए. भाग २,सत्र -४

साहित्यकृती : बनगरवाडी (कादंबरी)

मराठी कादंबरीचे स्वरूप.परंपरा.प्रवृत्ती, प्रवाह यांचा परिचय करून घेणे

पीएसओ-६ डी.एस.सी.- .व्ही.आय. बी.ए. भाग २ पेपर नं ६

बी.ए. भाग ३ सत्र ५ व ६

पीएसओ-७ साहित्यविचार बी.ए. भाग २ पेपर नं ७ व १२

पौर्वात्य काव्यशास्त्राची ओळख करून घेणे

पीएसओ-८ मराठी भाषा व भाषाविज्ञान बी.ए. भाग ३ पेपर नं ८ व १३

आधुनिक भाषाविज्ञानाचा परिचय करून घेणे

पीएसओ-९ मध्ययुगीन मराठी वाङ्मयाचा इतिहास बी.ए.भाग ३ पेपर ९ व १४

मध्ययुगीन मराठी वाङ्मय परंपरांचा व इतिहासाचा परिचय करून घेणे

पीएसओ-१० मराठी भाषा व अर्थाजनाच्या संधी बी.ए.भाग ३ पेपर नं १० व १५

विविध क्षेत्रातील भाषिक कौशल्ये आणि क्षमता विकसित करणे

पीएसओ-११ वाङ्मयप्रवाहांचे अध्ययन (मध्ययुगीन) बी.ए. भाग ३ पेपर नं ११ व १६

ग्रामीण साहित्य प्रवाहांची प्रेरणा, स्वरूप, वैशिष्ट्ये व विकास समजावून घेणे.

प्रोग्राम आउट्कम

- १) विविध क्षेत्रासाठी भाषिक कौशल्ये व क्षमता विकसित होतील
- २) व्यक्तिमत्त्व विकास होईल
- ३) मराठी विविध साहित्य प्रवाहांचा परिचय होईल
- ४) विद्यार्थ्यांचा वाङ्मयीन दृष्टिकोण विकसित होईल
- ५) मराठी वाङ्मयाच्या इतिहासाचा परिचय होईल
- ६) साहित्य निर्मिती प्रक्रिया आणि स्वरूप समजेल
- ७) ललित गद्य या वाङ्मय प्रकाराचे स्वरूप लक्षात येईल.
- ७) समाज आणि साहित्य यांचे परस्परसंबंध लक्षात येतील.

पोग्राम स्पेसिफिक आउट्कम

- सीईजी 1 : मराठी भाषा आणि साहित्यविषयक अभिरुची विकसित करणे
- डीएससी- ए 1 : लेखक कवी यांचा परिचय करून देणे
- बी.ए.२ पे.३ मध्ययुगीन वाङ्मयाचा परिचय करून देणे
- बी.ए.२ पे.४ अभंग वाङ्मयाचा परिचय करून देणे
- बी.ए.३ पे.७ पौरवत्य काव्यशास्त्राची ओळख करून देणे
- बी.ए.३ पे.८ आधुनिक भाषा विकासाचा परिचय करून देणे
- बी.ए.३ पे.९ मध्ययुगीन वाङ्मयाचा परिचय करून देणे
- बी.ए.३ पे.१० भाषिक कौशल्यांचा विकास करणे
- बी.ए.३ पे.११ विविध साहित्यप्रवाहांचे स्वरूप स्पष्ट करणे.

कोर्स आऊटकम

बी.ए. भाग १

सीईजी 1 :१) मराठी यशस्वी साहित्यिकांचा परिचय होईल

२) व्यक्तिविषेश - बापुजी साळुंखे यांचा परिचय होईल

३) व्यक्तिविकासात भाषेचे महत्त्व लक्षात येईल

४) भाषिक कौशल्ये समजतील

५) प्राचीन कवींचा परिचय होईल

६) निबंधाचे स्वरूप समजेल

७) निबंधलेखन कौशल्य प्राप्त होईल

डीएससी- ए 1 :१) कथा या वाङ्मय प्रकाराचा परिचय करून देणे

२) भास्कर चंदनशीव यांच्या कथांचे सूत्र समजेल

३) चित्रपट निर्मिती प्रक्रिया समजेल

४) चित्रपट निर्मितीचे घटक समजतील

५) काव्यप्रकाराचा परिचय होईल

६) लोकनाथ यशवंत यांच्या कवितांचे सूत्र समजेल

७) वृत्तपत्रिय लेखनाचा परिचय होईल

बी.ए.भाग २

देवबाभळी (नाटक)

१) नाटक या वाङ्मय प्रकाराचे आकलन होईल

२) नाटकातील समकालीन प्रश्न समजतील

- ३) अभिवाचन कौशल्य विकसित होईल.
- ४) अभिवाचनासाठीचे आवश्यक गुण समजतील.
- ५) कथा, कविता, नाटक, कादंबरीचे अभिवाचन कसे करावे याचे आकलन होईल.

पाठ्यपुस्तक - चांदण्यात भिजायचं राहून जाऊ नये, म्हणून!

- १) ललित गध्य या वाङ्मय प्रकाराचे आकलन होईल
- २) ललित गध्य आणि इतर वाङ्मयप्रकार यामधील फरक सांगता येईल.
- ३) मराठी ललित गद्याच्या परंपरेचे आकलन होईल.
- ४) डॉ.आ.ह.साळुंखे यांच्या जीवनाची जडण घडण आणि लेखनशैली समजण्यास मदत होईल.

बी.ए.भाग २

पाठ्यपुस्तक - पक्ष्यांचे लक्ष थवे

- १) मराठी काव्यपरंपरा व प्रवाहांची ओळख होईल
- २) काव्यातील माणूस आणि समाज यांचा परस्पर संबंध लक्षात येईल
- ३) कविता व गीत यामधील साम्यभेद समजतील.
- ४) गीतलेखन कौशल्य विकसित होईल.

बनगरवाडी (कादंबरी)

- १) कादंबरी या वाङ्मय प्रकाराची ओळख होईल.
- २) मानवी मूल्यांविषयीची जाणिव होईल.
- ३) कादंबरी लेखनाचे विशेष समजतील.
- ४) रिपोर्टाज लेखन कौशल्ये समजतील.

बी.ए.भाग ३

पेपर क्रमांक ७ : साहित्यविचार

- १) पौर्वात्य काव्यलक्षणांचा परिचय होईल
- २) ललित व ललितेतर साहित्याचे स्वरूप समजेल
- ३) साहित्य प्रयोजनांचे आकलन होईल
- ४) साहित्याची निर्मिती प्रक्रिया व त्याचे स्वरूप कळेल
- ५) भाषेतील अलंकार समजतील

पेपर क्रमांक ८ : मराठी भाषा व भाषाविज्ञान

- १) भाषेच्या उत्पत्तीचा अभ्यास होईल
- २) भाषाविज्ञानाचा परिचय होईल
- ३) मराठी भाषा आणि भाषाविज्ञान यांचा सहसंबंध लक्षात येईल
- ४) स्वनविचार, रूपविचार व वाक्यविचार यांचा परिचय होईल

पेपर क्रमांक ९ : मध्ययुगीन मराठी वाङ्मयाचा इतिहास

- १) मध्ययुगीन मराठी वाङ्मयाचा स्थूल परिचय होईल
- २) मध्ययुगीन मराठी वाङ्मयाचा कालिक अभ्यास होईल
- ३) मध्ययुगीन मराठी वाङ्मयाचे स्वरूप, वैशिष्ट्ये यांचा अभ्यास होईल
- ४) मध्ययुगीन मराठी वाङ्मयाच्या गद्य, पद्य रचनेचे विशेष समजतील

पेपर क्रमांक १० : मराठी भाषा व अर्थार्जनाच्या संधी

- १) सर्जनशील लेखनप्रक्रिया समजावून घेता येईल
- २) वैचारिक लेखनाचे स्वरूप समजेल
- ३) शोधनिबंध व प्रकल्पलेखन कौशल्य समजतील
- ४) आंतरजालावरील मराठी लेखन पध्दतींचा अभ्यास होईल.

पेपर क्रमांक ११ : वाङ्मय प्रवाहांचे अध्ययन : (मध्ययुगीन)

पाठ्यपुस्तक -दृष्टांतपाठ निवडक (संपादन)

- १) मध्ययुगीन महाराष्ट्र व महानुभाव पंथ यांचा परिचय होईल
- २) महानुभाव वाङ्मयाच्या प्रेरणा समजतील
- ३) दृष्टांतपाठातील आशय व अभिव्यक्ती यांचा परिचय होईल
- ४) दृष्टांतपाठातील भाषिक वैभवाचा परिचय होईल.

बी.ए.भाग ३

पेपर क्रमांक १२ : साहित्यविचार

- १) शब्दशक्तींचे आकलन होईल
- २) साहित्यातील रसाचे स्वरूप व रसप्रक्रिया समजेल
- ३) साहित्य भाषेचे आकलन होईल
- ४) भाषेतील छंद व वृत्ते यांचा अभ्यास होईल

पेपर क्रमांक १३ : मराठी भाषा व भाषाविज्ञान

- १) मराठी भाषेची वर्ण व्यवस्था समजेल
- २) ध्वनी व अर्थपरिवर्तनाची व्यवस्था यांची माहिती होईल
- ३) बोलींचे स्वरूप व विशेष समजतील
- ४) प्रमाणभाषेच्या स्वरूपाचा अभ्यास होईल

पेपर क्रमांक १४ : मध्ययुगीन मराठी वाङ्मयाचा इतिहास

- १) मध्ययुगीन वाङ्मयाचा कालखंड समजावून घेता येईल
- २) पंडित कवी व त्यांची रचना यांचा अभ्यास करता येईल
- ३) बखर वाङ्मय आणि शाहिरी वाङ्मय यांचे स्वरूप समजावून घेता येईल
- ४) मध्ययुगीन गद्य व पद्य रचनेचे विशेष लक्षात येतील

पेपर क्रमांक १५ : मराठी भाषा व अर्थार्जनाच्या संधी

- १) प्रसारमाध्यमातील अर्थार्जनाच्या संधी समजतील
- २) स्पर्धा परीक्षांमध्ये मराठी विषयाचे महत्व समजावून घेता येईल
- ३) उद्ध्योग व सेवा क्षेत्रात मराठी भाषेतील संधी समजतील
- ४) मुद्रित शोधनाची पद्धत अभ्यासता येईल

पेपर क्रमांक १६ : वाङ्मय प्रवाहांचे अध्ययन : ललितगद्य
(व्यक्तिचित्रे) पाठ्यपुस्तक- मुलूखावेगळी माणसं (संपादन)

- १) ललित गद्य वाङ्मय प्रकाराचे स्वरूप कळेल
- २) व्यक्तिचित्र संकल्पना व स्वरूप समजेल
- ३) मुलूखावेगळी माणसं मधील व्यक्तिचित्रांचे स्वरूप कळेल
- ४) मुलूखावेगळी माणसं मधील अभिव्यक्ती, निवेदनशैली, भाषाविशेष यांचे स्वरूप कळेल.

Department of Commerce

Course Outcomes

B.COM I - Semester (I & II)

English for Business communication (Compulsory English) Paper (I & II)

1. To offer relevant and practically helpful pieces of prose and poetry to students so that they not only get to know the beauty and communicative power of English but also its practical application.
2. Students are trained to draft trade letters using various structures and layouts which will help students to write letters when needed at the place of their work in future.
3. To expose students to techniques of paragraph writing.
4. To enable students to develop an idea and use appropriate linking devices like cohesion and coherence.
5. To enable students to use appropriate language as per the register.

Financial Accounting Paper (I & II)

1. To enable the students to learn principles and concepts of Accountancy.
2. Students are enabled with the Knowledge in the practical applications of accounting.
3. The student will get thorough knowledge on the accounting practice prevailing in partnership firms and other allied aspects.
4. To find out the technical expertise in maintaining the books of accounts.
5. To encourage the students about maintaining the books of accounts for further reference.

Insurance Paper (I & II)

1. To enables the student to know the fundamental of insurance.
2. To expose the students to procedural part and documentation in life
3. To create awareness among the students to become a life insurance agent.

Principle of marketing Paper (I & II)

1. This course enables the students, the practical knowledge and the tactics in the marketing.
2. To study and critically analyze the basic concepts and trends in Marketing.
3. To aware of the recent changes in the field of marketing.
4. Provide you with opportunities to analyze marketing activities within the firm

Macro Economics Paper (I & II)

1. Identifying the basic concepts and theories of Macro economics
2. Awareness' about changing macroeconomic policies and theories.
3. Understanding various concept such as GDP, GNP, NNP, PI, DI.
4. Identifying the factors determine gross domestic product, employment, general level of price, and interest rate.

Money and Finance Paper (I & II)

- 1 To explain the nature, functioning and issues related to money, banks & non banking financial institutions in India to the students.
- 2 To acquaint the students fully with changing role of financial institutions in the process of growth & development.
- 3 To build up the capability of students for knowing banking concepts and operations.
- 4 To make the students aware of banking business and practices Business statistics

Business Statistics Paper (I & II)

1. To understand the different concept of population and sample and to make students familiar with Calculation of various types of averages and variation.
2. To use regression analysis to estimate the relationship between two variables and to use frequency distribution to make decision.
3. To understand the techniques and concept of different types of index numbers.

BCOM III Semester V & VI

Modern management practices Paper (I & II)

1. To impart knowledge of modern management
2. To understand concepts of CRM
2. To understand the Japanese and Chinese Management Practices
4. To understand the concept of time and stress management

Department of Commerce

Program Outcomes

PO 1: Learners will gain knowledge in the fundamentals of commerce and a deep understanding of all the courses undertaken.

PO 2: Learners will be able to join the industry or setup own entities, peruse further professional and other courses.

Po 3: This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., well trained professionals to meet the requirements.

Po 4: After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company.

Po 5: Capability of the students to make decisions at personal & professional level will increase after completion of this course.

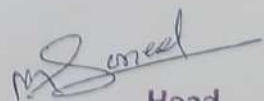
Po 6: Students can independently start up their own Business.

Po 7: Students will get the knowledge of finance and commerce.

Po 8: The knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.

PO 9: Learners will be equipped to face upcoming challenges in the industry and business as the specializations offered expose them to practical aspects.

PO 10: Learners will be responsible citizens as various academic and co-curricular courses imbibe sensitivity, moral and ethical values among them.



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Business Regulatory Framework Paper (I & II)

1. The student will well verse in basic provisions regarding legal frame work governing the business world.
2. To know the students with the basic concepts, terms & provisions of Mercantile and Business Laws.
3. To develop the awareness among the students regarding these laws affecting trade business, and commerce.
4. Student would be recall various definitions and would be able to evaluate the provision of Law of contract 1872

Business Environment Paper (I & II)

1. Student should able to understand the significance and position of Indian economy at the world level.
2. Students should study the scenario of agricultural and industrial sectors.
3. Student should aware regarding Indian economy is facing some of the fundamental economic problems.
4. They should able to make plans and solutions to these being as a citizen.
5. Student should understand the correlations between economical and social problems

Co-operative Development Paper (I & II)

1. To study the cooperative legislations and fund management
2. To understand the institutional arrangement for cooperative education and training
3. To understand the nature, registration, legislation and audit of housing cooperatives
4. To understand the cooperative audit system and provisions

Advanced Accountancy paper I

1. To understand the basic concepts of income tax and basis of charge.
2. To identify the residential status and its implication on tax liability.
3. To understand the manner of computation of total income.

Advanced Accountancy paper II (Auditing)

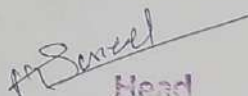
1. To understand the concept and types of audit
2. To identify the residential status and its implication on tax liability
3. To understand the concept of exemption from income
4. To know the computation of income from various sources as well as total income

Advanced Accountancy paper III

1. Practice the preparation of financial statements of banks.
2. Demonstrate accounting for farms and hire purchase system.
3. Simulate accounting situations of insurance claim.
4. Explain the accounting process on Tally with GST.

Advanced Accountancy paper IV (Taxation)

1. To understand the basic concepts of income tax and basis of charge
2. To identify the residential status and its implication on tax liability
3. To understand the manner of computation of total income
4. Students can understand Income Tax system properly, and can get the knowledge of different tax provisions.


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Department of English

Programme Outcomes [PO]

1. To equip the students with Knowledge and Life Skills.
 2. To create Social, Cultural, Political, Environmental, Economic and Moral awareness among the students.
 3. To introduce the students with various disciplines of Arts and Fine Arts.
 4. To develop leadership qualities among the students.
 5. To develop the employment and Entrepreneurship Skills.
 6. To develop the responsible citizens of the country.
 7. To develop National Integrity among the students.
- To inculcate Humanistic and Scientific Values among the students.

Programme Specific Outcomes [PSO]

1. Capacity of functional communication in English.
2. Skill to read, comprehend and appreciate good quality text.
3. Proficiency in English Grammar.
4. Ability to appreciate culture texts such as films, documentaries etc.
5. Capacity of translation of simple texts.
6. Capacity of creating a text on the given topic.
7. Confidence of giving a presentation on a given topic.
8. To acquaint and appreciate major genres of literature.
9. To develop an ability to analyze and evaluate literature.

Course Outcome [CO]

Course: B. A. I

1. To acquaint the students with translated modern Indian literature in English.
2. To introduce the students with the forms of literature such as Short Story, Poetry, Drama and Novel.
3. To develop literary competence among the students.

Course: B. A. II

1. To acquaint the students with translated modern Indian literature in English.
2. To introduce the students with the forms of literature such as Short Story, Poetry,

Drama and Novel.

To develop literary competence among the students.

B. A. Part II

**ABILITY ENHANCEMENT COMPULSORY COURSE (AECC) (CBCS) ENGLISH
FOR COMMUNICATION (Compulsory English)**

Course Objectives:

1. To enable the students to develop communication skills in English, both oral and written.
2. To equip the students with the language skills for use in their personal, academic and professional lives.
3. To develop the student's essential employability skills.
4. To help the students to enter the job market with confidence and the ability to work effectively.
5. To help the students to learn and practice both language and soft skills.
6. To encourage the active involvement of the students in learning process.
7. To enable the students to cultivate a broad, human and cultured outlook.

B. A. Part II

(Discipline Specific Core) (DSC-C5) English (Paper III) (Semester III)

LITERATURE AND CINEMA (CBCS)

Course Objectives:

1. To introduce film and its relationship to literature to the students
2. To acquire film literacy through a working knowledge of basic film terminology
3. To develop critical approaches to engage with film adaptations
4. To establish a clear understanding of literature through film adaptations of literary texts
5. To introduce the students to the issues and practices of cinematic adaptations

B. A. Part II

**(Discipline Specific Core) (DSC-C29) English (Paper V) (Semester IV) LITERATURE
AND CINEMA (CBCS)**

Course Objectives:

1. To introduce film and its relationship to literature to the students
2. To acquire film literacy through a working knowledge of basic film terminology
3. To develop critical approaches to engage with film adaptations
4. To establish a clear understanding of literature through film adaptations of literary texts

5. To introduce students to the issues and practices of cinematic adaptations

B. A. Part II

**(Discipline Specific Core) (DSC-C6) English (Paper IV) (Semester III) PARTITION
LITERATURE (CBCS)**

Course Objectives:

1. To create an awareness of the partition scenario among the students
2. To explain the hidden human dimensions of the partition to the students
3. To elaborate on the impact of partition on society

B. A.III

Compulsory English

Ability Enhancement Compulsory Course (CBCS)

ENGLISH FOR COMMUNICATION

Course Objectives:

1. To enhance students' communication skills
2. To impart employability skills to students
3. To prepare students for competitive examinations
4. To enable students to acquire professional skills such as media writing
5. To enable students to learn manners and etiquettes required at workplace
6. To enhance students' reading comprehension skills
7. To create interest in English literature among students
8. To inculcate human values and ethics in order to enable students' to become good citizens of the country

Course Outcomes: After the completion of the course, the students will be able to:

1. Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces.
2. Face job interviews confidently and efficiently.
3. Acquire soft skills required at workplaces and in real life.
4. Learn group behaviour and team work.
5. Learn to value and respect others' opinions and views and develop democratic attitude.
6. Face competitive examinations confidently and efficiently with adequate

linguistic confidence.

7. Acquire professional skills required in media writing such as writing editorials.

8. Learn to appreciate and enjoy reading poetry and prose passages.

9. Acquire human values and develop cultured outlook.

INTRODUCTION TO LITERARY CRITICISM (CBCS)

Discipline Specific Elective

Semester V (Paper VII) (DSE- E11) & Semester VI (Paper XII) (DSE- E136)

Course Objectives:

1. To introduce students to the major trends in literary criticism.
2. To familiarize students with the major critical concepts.
3. To help students to study the original contributions made in the field of literary criticism.
4. To acquaint students with the various literary and critical movements.
5. To train students to write critical appreciation of poetry.

Course Outcomes:

1. Students are able to understand the major trends in criticism.
2. Students are able to interpret critical concepts.
3. Students are able to study the original contributions to literary criticism.
4. Students are acquainted with literary and critical movements.
5. Students are able to understand the meaning and appreciate the poems critically.

ENGLISH POETRY (CBCS)

Discipline Specific Elective

Semester V (Paper VIII) (DSE – E12) and Semester VI (Paper XIII) (DSE – E137)

Course Objectives:

1. To make students engaged and curious readers of poetry
2. To introduce students to poetry from various cultures and traditions
3. To make students understand that poetry gives intellectual, moral and linguistic pleasures
4. To make students hear and read poems aloud and to memorize lines

Course Outcomes:

1. Students will be able to trace the development of the poetry in English from

the days of Shakespeare to the contemporary India.

2. Students will be able to appreciate and analyze the poems properly.
3. Students will have a fairly comprehensive view of the Western and Eastern poetic tradition and they will be able to relate it to various literary movements.
4. Students will have an insight into poetry and they will be able to make a lively and interesting reading.

ENGLISH DRAMA (CBCS)

Discipline Specific Elective

Semester V (Paper IX) ((DSE – E13) & Semester VI (Paper XIV) (DSE – E138)

Course Objectives:

1. To make students understand different forms of drama
2. To enable students to relate drama to their ideological or socio-political contexts
3. To help students improve their creative and imaginative faculties through the reading of drama
4. To enable students to know about various aspects of the drama

Course Outcomes:

1. Students are able to understand different forms of drama.
2. Students are able to relate drama to their ideological or socio-political contexts.
3. Students are able to improve their creative and imaginative faculties through the reading of drama.
4. Students are able to know about various aspects of the drama.

ENGLISH NOVEL (CBCS)

Discipline Specific Elective

Semester V (Paper X) ((DSE – E14) & Semester VI (Paper XV) (DSE – E139)

Course Objectives:

1. To make students understand different forms of novel.
2. To enable students to relate novels to their ideological or socio-political contexts.
3. To help students to improve their creative and imaginative faculties through the reading of novels.
4. To enable students to know about various aspects of the novel.

Course Outcomes:

1. Students are able to understand different forms of novel.
2. Students are able to relate novels to their ideological or socio-political contexts.
3. Students are able to improve their creative and imaginative faculties through the reading of novels.
4. Students are able to know about various aspects of the novel.

LANGUAGE AND LINGUISTICS

Semester V –Paper XI (DSE -E 15)

Course Objectives:

1. To orient students to the concept of communication.
2. To make the students familiar with varieties of the English language.
3. To acquaint students with different levels of the study of language.
4. To study the basic units of grammar.

Course Outcomes:

1. Students know the concept of communication.
2. Students are familiar with varieties of the English language.
3. Students know different levels of study of the English language.
4. Students know basic units of grammar.

LANGUAGE AND LINGUISTICS (CBCS)

Discipline Specific Elective

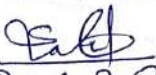
Semester VI – Paper XVI (DSE - E140)

Course Objectives:

1. To acquaint students with structures and functions of words and phrases.
2. To enable students to know and identify elements and types of clauses.
3. To study Subordination and Coordination.
4. To study different ways of structuring clauses.

Course Outcomes:

1. Students know words and phrases.
2. Students know and identify elements and types of clauses.
3. Students know types of sentences.
4. Students know the different ways of structuring clauses


(Dr. S. P. Patil)
Head

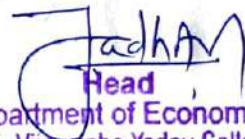
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Department of Economics

Program Specific Outcome of Economics (PSO)

- Understanding how different of completion in a market affect pricing and outcome.
- Understanding the efficiency and equity implication of market interface, including government policy.
- Developing research knowledge in economics
- Development the skill of data collection and use of sampling techniques in research
- Developing the knowledge about theories of economic growth and Development and issues of economic planning.
- Creating awareness about changing macro-economic polies in Indian economy


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Department of Economics

Course Outcome

(Syllabus to be implemented from June, 2022 onwards.)

Indian Economy

Semester: I

- To introduce the students to the Indian economy.
- To develop an understanding of challenges facing the Indian economy.
- To acquaint the students with Structure of the Indian economy and Changes Taking Place therein

Indian Economy

Semester: II

- To acquaint the students with the policies and performance of major sectors in Indian Economy.
- To explain the economic reforms introduced in India since 1991.


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Department of Economics

Course Outcome

(Syllabus to be implemented from June, 2023 onwards.)

Bank and financial Institution

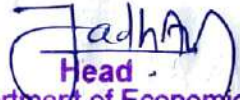
Semester: III

- Understand the meaning, function and role of commercial banking.
- Comprehending the procedure of an account opening. Operating and closing.
- Knowing the structure, function and role of RBI in economic development.
- judging the progress of financial inclusion.

Bank and financial Institution

Semester: IV

- Evaluating the importance, characteristics and components of the financial market.
- Understanding the role and types of development banks and non-banking financial institute.
- Identifying recent trends in Indian banking such as E-banking, MICR Clearing, ATMs, Credit cards and Debit Cards, Demat Account.


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Department of Economics

Course Outcome

(Syllabus to be implemented from June, 2023 onwards.)

Macro Economics

Semester: III

- Identifying the basic concepts and theories of Macro economics
- Awareness' about changing macroeconomic policies and theories.
- Understanding various concept such as GDP, GNP, NNP, PI, DI.
- identifying the factors determine gross domestic product, employment, general level of price, and interest rate.

Macro Economics

Semester: IV

- Realizing law of market, consumption function and investment function.
- Judging the role of fiscal policy and monetary policy in a developing economy.
- Evaluating types, merits and demerits of taxes.
- Comprehending the role of public finance in developing economy.


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Department of Economics

Course Outcome

(Syllabus to be implemented from June, 2022 onwards.)

Principles of Micro Economics-I

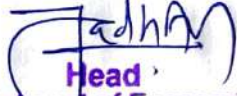
Semester: V

- Explain what economics is and explain why it is important
- Understand consumer decision making and consumer behaviour
- Define the concept of utility and satisfaction
- Derive revenue and cost figures as well as curves
- Understand producer decision making and producer behaviour

Principles of Micro Economics-II

Semester: VI

- Identify the market structure
- Analyse the economic behavior of individual firms and markets
- Analyse a firm's profit maximising strategies under different market conditions
- Understand the factor pricing


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Department of Economics

Course Outcome

(Syllabus to be implemented from June, 2022 onwards.)

Economics of Development

Semester: V

- Identify the dimensions of development
- Distinguish the fundamental and contemporary development debate
- Know the theories of economic development
- Realise the role of state in economic development

Economics of Planning

Semester: VI

- Get acquainted with economic planning and its importance in development
- Get acquainted with development of planning and planning machinery in India
- Evaluate Sectoral performance of the Indian economy
- Compare and analyse Indian models of economic development


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Course Outcome

(Syllabus to be implemented from June, 2022 onwards.)

International Economics- I

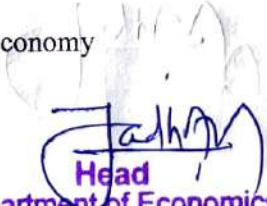
Semester: V

- Explain international trade
- Understand the measurement of gains from international trade
- Distinguish different rates of exchange

International Economics-II

Semester: VI

- Measure the terms of trade
- Distinguish between balance of trade and balance of payments
- Analyse the balance of payments
- Understand the various types of foreign capital
- Analyse the impact of international institutions on Indian economy


Head
Department of Economics
Shri. Vijaysinha Yadav College
Peth Vadgaon, Dist. Kolhapur.

Shri.Vijaysinha Yadav College, Pethvadgaon

Department of Economics

Course Outcome

(Syllabus to be implemented from June, 2022 onwards.)

Research Methodology in Economics-I

Semester: V

- Get acquainted with the basic concepts of research and its methodologies.
- Select and define appropriate research problem and parameters.
- Understand the sampling techniques as a method of data collection

Research Methodology in Economics-II

Semester: VI

- Use techniques of data analysis in research
- Write a research report and thesis
- Write a research proposal (grants)


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Shri. Vijaysinha Yadav College, Pethvadgaon

Department of Economics

Course Outcome

(Syllabus to be implemented from June, 2022 onwards.)

History of Economic Thoughts-I

Semester: V

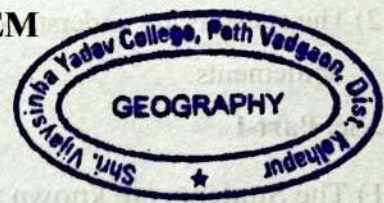
- Understand the basic economic ideas of various economic thinkers of the world
- Understand the development of economic thoughts

History of Economic Thoughts-II

Semester: VI

- Understand the economic concepts and theories of Neo-Classical and Indian thinkers.
- Understand the development of economic thoughts


Head
Department of Economics
Shri. Vijaysinha Yadav College
Peth Vadgaon, Dist. Kolhapur.



(Syllabus to be implemented from June, 2022 onwards)

PROGRAM OUTCOMES

By the end of the program the students will be able to:

PO1: Relating to Knowledge

- 1.1 Provide explanation of definitions, relevant terms and concept of geography.
- 1.2 Provide better explanation about relevant principles, theories and models in geography.
- 1.3 Provide ideas about detail knowledge regarding man and environmental process.

PO2: Understanding and application

- 2.1 Know the importance of spatio-temporal scale.
- 2.2 Know the relation or complex nature between physical and human environments.
- 2.3 Identify the importance of places, environment and people.
- 2.4 Understand how processes bring changes in systems and its distribution.

PO3: Students Skills

- 3.1 Collection, representation and Interpretation of geographical data and sources.
- 3.2 Presentation of geographical evidence and ideas with identifying geographical trends and patterns.
- 3.3 Application of the cartographical techniques to support the inferences of geographical aspects.
- 3.4 Make obvious skill of analysis of geographical information.

PO4: Students Evaluation

- 4.1 Critically evaluate the basics of geography.
- 4.2 Assess the effects of geographical processes and its impact on physical and human environments.
- 4.3 Assess how the viewpoints of different groups of people, potential conflicts of interest and other factors interact in the management of physical and human aspects.
- 4.4 Evaluate the relative success of failure of initiatives.

PROGRAMME SPECIFIC OUTCOME (PSO)

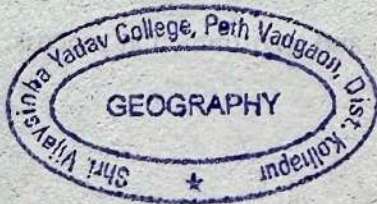
B. A. Part-I

- 1) The Students are known the branches of Geography and latest concepts in Physical Geography Specifically in Atmosphere, Lithosphere, Fluvial Cycle and Hydrosphere.

2) The students are understood the Human races, Population growth, Characteristics of Population and Settlements.

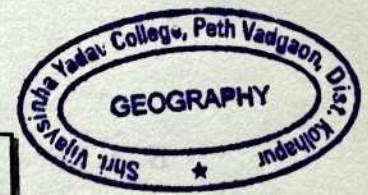
B. Sc. Part-I

- 1) The Students are known the concept of Physical Geography, branches of Geography Specifically in Lithosphere, the Earth Interior, Earth Movements, Atmosphere, Fluvial Cycle and Hydrosphere.
- 2) The students are understood the Human races, Population growth, Characteristics of Population and Settlements.
- 3) The students are understood the map preparation with scale, projections as well as profiles of landscapes.



P. J. N.
Head
Department of Geography
Shri. Vijaysinha Yadav College
Peth Vadgaon, Dist. Kolhapur.

PROGRAM OUTCOMES



By the end of the program the students will be able to:

PO1: Relating to Knowledge

- 1.1 Provide explanation of definitions, relevant terms and concept of geography.
- 1.2 Provide better explanation about relevant principles, theories and models in geography.
- 1.3 Provide idea about detail knowledge regarding man and environmental process.

PO2: Understanding and application

- 2.1 Know the importance of spatio-temporal scale.
- 2.2 Know the relation or complex nature between physical and human environments.
- 2.3 Identify the importance of places, environment and people.
- 2.4 Understand how processes bring changes in systems and its distribution.

PO3: Students Skills

- 3.1 Collection, representation and Interpretation of geographical data and sources.
- 3.2 Presentation of geographical evidence and ideas with identifying geographical trends and patterns.
- 3.3 Application of the cartographical techniques to support the inferences of geographical aspects.
- 3.4 Make obvious skill of analysis of geographical information.

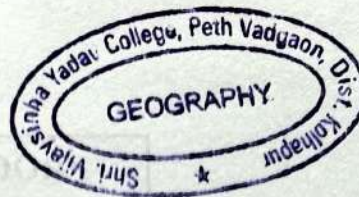
PO4: Students Evaluation

- 4.1 Critically evaluate the basics of geography.
- 4.2 Assess the effects of geographical processes and its impact on physical and human environments.
- 4.3 Assess how the viewpoints of different groups of people, potential conflicts of interest and other factors interact in the management of physical and human aspects.
- 4.4 Evaluate the relative success or failure of initiatives.

PROGRAMME SPECIFIC OUTCOME (PSO)

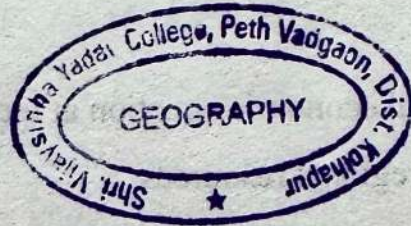
B. A. I

- 1) The Students are known the Human development by studying these Physical branches of Geography.
- 2) The students are understood the branches of Geography, concepts in Physical Geography and Geomorphology and Climatology in detail.



- 3) The students are acquired knowledge about the basic and fundamental concepts of soil geography.
 - 4) The students are understood soil is key resource for the development of any country with concept, causes and controlling factors of soil erosion, soil degradation and Conservation of Soils. Along with the concept, need and methods soil of management.
 - 5) Students are known classification, characteristics and distribution of soils.
 - 6) The students are understood the Human Geography as a basic branch of Geography along with the Dichotomy, Environmentalism and possibilism.
 - 7) The students are well prepared with the knowledge of the racial groups in the world, man- environment conflict and Ecological crises. They are familiar about the World population growth, distribution and the population policies.
 - 8) The students are familiar with the fundamental concepts of oceanography, they are also known oceans are the best alternative source to the earth resources.
 - 9) Students are talented about physical and chemical properties of oceans and get detailed about types of oceanic currents and currents of Atlantic, Pacific and Indian oceans.
 - 10) The students are individually ready to prepare graphs and diagrams of oceanic statistical data.
 - 11) The students are well acquainted with new emerging concepts and development of Agriculture. They are aware about agricultural determinants towards the changing cropping pattern and Green Revolution.
 - 12) They are aware about the Agricultural concepts and modern technologies used in Agriculture.
- B. A. II (IDS)**
- 13) The students are familiar with aspects of tourism which have a relation with the subject matter of Geography and students are oriented in relation to the logistics of tourism industry and the role of tourism in regional development.
 - 14) The students are individually examining an impact of tourism on physical and human environments.

- 30) The students are developed their skills in instrumental (Plain Table and Prismatic Compass) survey.
- 31) The students are abled to use computer for analysis of Geographical data.
- 32) The students are understood the basic information about Arial Photographs, Remote Sensing, GIS and GPS.



P. A. H.
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Peth Vadgaon, Dist. Kolhapur.

Shri Vijaysinha Yadav College Peth Vadgaon
Department Of Political Science
Course Outcomes
2023-24

B. A. Political science

Program specific outcomes

1. Knowledge about political system of nation.
2. Study of national and international political affairs.
3. Study from competitive examination point of view.
4. Understanding the government mechanism, its functions, duties and responsibilities.
5. Creating appropriate and efficient political leaders.
6. Getting knowledge of political law.
7. Getting the knowledge of constitution of India.

Course outcomes

B.A. - 1 introduction to political science and Indian constitution

1. Acquiring the knowledge about political science and Indian constitution.
2. Getting awareness about ones right and duties.
3. Getting information about political parties and system of justice in India.
4. Get concept of democracy, Justice, secularism and communalism

B.A. part II

Paper no 3 and 5 political process in India and local self-Government Of Maharashtra.

1. Getting information about Indian federalism, electoral process and political process.
2. To study of the local government mechanism.
3. Developing leadership at local level.

Paper no. - 4 and 6 Indian political thought I, II

1. Study of the Indian political thinker and their thoughts.
2. Study of the contribution of political thinkers in the Independence movement and their need for modern society.

B.A. III

Paper 7 Political Theory

1. Getting basic knowledge of Political Theory.
2. To understanding the approach of a Political Theory.
3. Knowing behaviour Movement in Political Science.
4. Acquiring knowledge about concept of power, authority any legitimacy.

Paper 8 - Public Administration

1. Acquiring Information about various concept in public administration.
2. getting knowledge about organisation it's bases, principle and unit
3. Getting acquainted with the budgetary process in India.
4. Understanding the interface between citizen and public Administration and other agencies.



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Peth Vadgaon, Dist. Kolhapur

Shri Vijaysinha Yadav College Peth Vadgaon
Department Of Political Science
Course Outcomes
2023-24

Paper 9- International politics

- 1 Getting acquainted with concept of dimension of international politics.
- 2 To understand main theories of international politics.
- 3 To know the working of International and Regional organisation and the new World order that emerged after the end of cold war.

Paper 10 comparative politics

1. Student will be familiar with the basic theory of comparative politics.
2. Student be able to understand constitutionalism federalism.
3. Student shall understand party system and pressure group and its functioning.
4. Student shall understand classification of political parties and pressure groups.

Paper 11. Western political thought I

1. Student will get acquainted activated with the western tradition from Plato to Rousseau.
2. Student will understand the evolution of Western political ideas.
3. Student will be able to study historical aspect of western state and society.

Paper 12. Modern political concept

1. Student will know modern concept such as feminism, multiculturalism, environmentalism Scenario in political science.
2. this will be enabling student to have comprehensive ideas of contemporary in Political Science

Paper 13. Politics and Movement in Maharashtra

1. Student will know the political system of Maharashtra.
2. They will understand the process of formation of Maharashtra state.
3. Student will know the movements, pressure groups and political parties in Maharashtra.
4. This will provide comprehensive ideas of contemporary politics of Maharashtra.

Paper 14 Foreign policy of India

1. Student will understand what foreign policy is and what the objectives of foreign policy are.
2. This will provide comprehensive idea of foundation of Indian foreign policy.
3. Student will come to know India's relation with superpower and neighbouring countries.
4. It will bring attention of the students toward the current National and international Political situation and foreign policy.

Paper 15. Comparative government with special reference to UK and USA

1. To familiarizes students with composition function and law-making process of Legislative bodies in UK and USA.
2. To introduce the student with execution process of law in UK and USA.
3. to introduce the judicial system in UK and USA and procedure of adjudication
4. Student will understand the role of pressure group in the politics of UK and USA.

Paper 16 Western political thought II

1. The student will understand political views of J. S. mil, Karl Marks Gramsci.
2. the student will get acquainted with various aspect of state and Society with western perspective



Head
Department of Political Science
Shri. Vijaysinha Yadav College
Peth Vadgaon, Dist. Kolhapur

Shri Shahu Shikshan Prasarak Seva Mandal's
Shri Vijaysinha Yadav College, Peth Vadgaon
Department of Zoology
Program Outcome, Program-Specific Outcome
and Course Outcome
(Old and New CBCS Syllabus)

PROGRAM OUTCOME (PO): B. Sc.

Program Outcomes	Students seeking admission to B.Sc. programs, permeating the following qualities which help them in their future life to achieve the expected goals.
PO 1	Acquired knowledge of facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, etc.
PO 2	Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life.
PO 3	Acquired the skills in handling scientific instruments, planning and performing in laboratory experiments.
PO 4	The skills of observations and drawing logical inferences from the scientific experiments. Analyzed the given scientific data critically and systematically and the ability to draw the objective conclusions.
PO 5	Been able to think creatively (divergently and convergent) to propose novel ideas in explaining facts and figures or providing new solution to the problems.
PO 6	Realized how developments in any science subject helps in the development of other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.

PO 7	Developed scientific outlook not only with respect to science subjectsbut also in all aspects related to life.
PO 8	Realized that knowledge of subjects in other faculties such as humanities, performing arts, social sciences etc. can have greatly and effectively influence, which inspires in evolving new scientific theories and inventions.
PO 9	Imbided ethical, moral and social values in personal and social lifeleading to highly cultured and civilized personality.
PO 10	Developed various communication skills such as reading, listening, speaking, etc., which we will help in expressing ideas and views clearly and effectively.

Programme Specific Outcome - Zoology

Sr. No.	Programme Specific Outcome
PSO 1	Acquisition of knowledge of animal science to the pupils.
PSO 2	To understand the principle and working of laboratory techniques.
PSO 3	Acquisition of the knowledge of nutrition, agriculture & live stock in their daily life.
PSO 4	Awareness of natural resources and environment.
PSO 5	Aptitude for scientific work & ability to pursue studies far beyond graduation.
PSO 6	To understand and correlate human health as well as diseases, pathogens and vectors.
PSO 7	Abilities to apply statistical methods like collection, processing, analysis and interpretation of scientific data.
PSO 8	Ability to apply knowledge of taxonomy for identification of economically important organisms.
PSO 9	Life science as a career, which is the need now-a-day.

Course Outcome (Old Syllabus)

B. Sc. I Zoology

(Syllabus Implemented in academic year 2013-14 and run up to 2017-18)

Paper I - Animal Diversity I

CO 1 - Aptitude for identification of Animals as per Scientific Classification.

CO 2 - Acquisition of knowledge of anatomy and histology of different animals from various groups of Kingdom Animalia

Paper II - Cell Biology and Genetics

CO 1 - Inculcation of Knowledge of Cell as well as structure and function of its organelles.

CO 2 - Inculcation of Knowledge of Genetics to solve criminal cases like pedigree analysis.

Paper III - Animal Diversity II

CO 1 - Aptitude for identification of Animals as per Scientific Classification.

CO 2 - Acquisition of knowledge of anatomy and histology of different animals from various groups of Kingdom Animalia

Paper IV - Ecology, Ethology, Evolution and Applied Zoology

CO 1 - Acquisition of knowledge of Ecology to know relationship between animals and their surrounding environment

CO 2 - Identification of abnormal behaviour of animals.

CO 3 - Social and economic growth of individual by applying knowledge of Applied Zoology.

B. Sc. II Zoology

(Syllabus Implemented in academic year 2014-15 and run up to 2018-19)

Paper V - Animal Diversity III

CO 1 - Aptitude for identification of Animals as per Scientific Classification.

CO 2 - Acquisition of knowledge of anatomy and histology of different animals from various groups of Kingdom Animalia

Paper VI - Genetics and Biological Chemistry

CO 1 - Inculcation of Knowledge of Genetics to solve criminal cases like pedigree analysis.

CO 2 - Acquisition of knowledge of Biomolecules and their chemical processes.

Paper VII - Animal Diversity IV

CO 1 - Aptitude for identification of Animals as per Scientific Classification.

CO 2 - Acquisition of knowledge of anatomy and histology of different animals from various groups of Kingdom Animalia

Paper VIII - Histology and Physiology

CO 1 - Aptitude for identification of various diseases of the organs and tissues as well as their roll in physiological processes.

B. Sc. III Zoology

(Syllabus Implemented in academic year 2015-16 and run up to 2019-20)

Paper IX - Functional Anatomy of Non-chordates

CO 1 - Acquisition of knowledge of animal body to the pupils

CO 2 - Acquisition of knowledge of anatomy and histology of different animals from Non chordates.

CO 3 - Aptitude for various aspects of Functional Anatomy of Non-chordates

Paper X - Biostatistics, Bioinformatics and Medical Zoology

CO 1 - Acquisition of knowledge of Biostatics for research.

CO 2 - Acquisition of knowledge of Bioinformatics for research.

CO 3 - Acquisition of knowledge of various pathogens, vectors, symptoms of diseases and preventive measures to avoid such diseases.

Paper XI - Molecular Biology, Biotechnology and Biotechniques

CO 1 - Aptitude for various processes of Nucleic acids and their role in cellular mechanism.

CO 2 - Acquisition of knowledge of molecular modeling and their use to improve quality of human life.

CO 3 - Aptitude for use of various scientific instruments for molecular modeling.

Paper XII - Endocrinology, Environmental Biology and Toxicology

CO 1 - Inculcate the knowledge of hormones and hormone related diseases.

CO 2 - Acquisition of knowledge of environmental factors for protection and conservation of environment.

CO 3 - Aptitude for identification of adverse effects of chemical substances on living organisms.

Paper XIII - Comparative Anatomy of Vertebrates

CO 1 - Acquisition of knowledge of vertebrate anatomy

CO 2 - Acquisition of capacity to compare evolutionary relationship

CO 3 - Aptitude to decide evolutionary relationship

Paper XIV - Developmental Biology

CO 1 - Acquisition of knowledge of developmental patterns in different vertebrate animals.

CO 2 - Acquisition of knowledge of developmental patterns about different economically important animals.

CO 3 - Acquisition of knowledge of developmental patterns about different research important animals.

Paper XV - Physiology

CO 1 - Acquisition of knowledge of basic physiology and its relation to daily life.

CO 2 - Acquisition of knowledge of basic physiology and its application to nutrition and health.

CO 3 - Aptitude for identification of alteration in physiological processes by knowing symptoms of various diseases.

Paper XVI - Applied Zoology

CO 1 - Acquisition of knowledge of various aspects of Applied Zoology.

CO 2 - Social and economic growth of individual by applying knowledge of Applied Zoology

CO 3 - Aptitude for application of modern technologies in Applied Zoology and its use for human welfare

Course Outcome (New Syllabus)

B. Sc. I Zoology

(Syllabus Implemented in academic year 2018-19 to 2021-22)

Paper I (DSC 15A) - Animal Diversity I

CO 1 - Aptitude for identification of Animals as per Scientific Classification

CO 2 - Acquisition of knowledge of anatomy and histology of different animals from various groups of Kingdom Animalia

Paper II (DSC 16A) Animal Physiology

CO 1 - Acquisition of knowledge of basic physiology and its relation to daily life

CO 2 - Aptitude for identification of alteration in physiological processes by knowing symptoms of various diseases

Paper III (DSC 15B) - Cell Biology and Evolutionary Biology

CO 1 - Inculcation of Knowledge of Cell as well as structure and function of its organelles

CO 2 - Understanding various evolutionary theories and its relevance with present evidences

Paper IV (DSC 16B) - Genetics

CO 1 - Inculcation of Knowledge of Genetics to solve criminal cases like pedigree analysis

B. Sc. II Zoology
(Syllabus Implemented in academic year 2019-20)

Paper V (DSC ___) - Animal Diversity II

CO 1 - Aptitude for identification of Animals as per Scientific Classification

CO 2 - Acquisition of knowledge of anatomy and histology of different animals from various groups of Kingdom Animalia

Paper VI (DSC ___) - Biochemistry

CO 1 - Acquisition of knowledge of Biomolecules and their chemical processes

Paper VII (DSC ___) - Reproductive Biology

CO 1 - Acquisition of knowledge of anatomy and histology of reproductive organs in human being

CO 2 - Acquisition of knowledge of process of reproduction and its hormonal control in human being

CO 3 - Inculcation of Knowledge of assistive reproductive technology for human being

Paper VIII (DSC ___) - Applied Zoology I

CO 1 - Aptitude for identification of some pathogenic diseases and their control measures

CO 2 - Acquisition of knowledge of host parasite relationship and its use in human welfare

CO 3 - Aptitude for application of modern technologies in poultry management and its use for human welfare

B. Sc. III Zoology

(Syllabus Implemented in academic year 2020-21)

Paper IX (DSE - E29) - Comparative Anatomy of Vertebrates

CO 1 - Acquisition of knowledge of vertebrate anatomy

CO 2 - Acquisition of capacity to compare evolutionary relationship

CO 3 - Aptitude to decide evolutionary relationship

Paper X (DSE - E30) - Molecular Cell Biology and Animal Biotechnology

CO 1 - Aptitude for various processes of Nucleic acids and their role in cellular mechanism

CO 2 - Acquisition of knowledge of molecular modeling and their use to improve quality of human life

CO 3 - Acquisition of capacity for performing biotechnological tests

Paper XI (DSE-E31) - Biotechniques and Biostatistics

CO 1 - Aptitude for use of various scientific instruments for molecular modeling

CO 2 - Acquisition of capacity for performing various Biotechniques

CO 3 - Acquisition of knowledge of Biostatistics for research

Paper XII (DSE-E32) - Aquatic Biology

CO 1 - Acquisition of knowledge of aquatic environment for protection and conservation

CO 2 - Acquisition of capacity to handle various limnological instruments

CO 3 - Inculcate the knowledge of hormones and hormone related diseases

Paper XIII (DSE-F29) - Developmental Biology

CO 1 - Acquisition of knowledge of developmental patterns in different vertebrate animals.

CO 2 - Acquisition of knowledge of developmental patterns about different economically important animals.

CO 3 - Acquisition of knowledge of developmental patterns about different research

Paper XIV (DSE-F30) - Immunology

CO 1 - Acquisition of knowledge of immune system to improve health status

CO 2 - Acquisition of capacity to handle various Immunological instruments

CO 3 - Acquisition of capacity to perform various Immunological tests

Paper XV (DSE-F31) - Applied Zoology II

CO 1 - Acquisition of knowledge of various aspects of Applied Zoology.

CO 2 - Social and economic growth of individual by applying knowledge of Applied Zoology

CO 3 - Aptitude for application of modern technologies in Applied Zoology and its use for human welfare

Paper XVI (DSE-F32) - Insect Vectors and Histology

CO 1 - Aptitude for identification of Insects as vectors and pathogens

CO 2 - Aptitude for identification of life cycle of vectors for control of diseases

CO 3 - Knowledge of internal organs to know the diseased/abnormal/infected/altered conditions

Course Outcome (New Syllabus)
B. Sc. I Zoology
(Syllabus Implemented in academic year 2022-23)

Paper I (DSC 15A) - Animal Diversity I

CO 1 - Aptitude for identification of Animals as per Scientific Classification

CO 2 - Acquisition of knowledge of anatomy and histology of different animals from various groups of Kingdom Animalia

Paper II (DSC 16A) - Cell Biology and Evolutionary Biology

CO 1 - Inculcation of Knowledge of Cell as well as structure and function of its organelles

CO 2 - Understanding various evolutionary theories and its relevance with present Evidences

Paper III (DSC 15B) - Animal Diversity and Insect Vectors

CO 1 - Inculcation of Knowledge of model Animal to know its anatomy and Histology

CO 2 - Aptitude for identification of Insects as vectors and pathogens as well as life cycle of vectors for control of diseases

Paper IV (DSC 16B) - Genetics

CO 1 - Inculcation of Knowledge of Genetics to solve criminal cases like pedigree analysis

CO 2 - Inculcation of Knowledge of Genetics to understand genetic disorders

Shri Vijaysinha Yadav College, Peth Vadgaon
Department of Chemistry

Programme Specific Outcome

Sr. No.	Programme Specific Outcome
PSO 1	Promote understanding of basic facts & concepts in chemistry while retaining the excitement of chemistry.
PSO 2	Make students capable of studying chemistry in academic & industrial courses.
PSO 3	Expose the students to various emerging new areas of chemistry & apprise them with their prevalent in their future studies & their applications in various spheres of chemical sciences.
PSO 4	Develop problem solving skills in students.
PSO 5	Develop ability & to acquire the knowledge of terms, facts, concepts, processes techniques & principles of subjects.
PSO 6	Expose & develop interest in the field of chemistry.
PSO 7	Develop proper aptitude towards the subjects.
PSO 8	Skills in chemistry practical work, experiments, laboratory materials & proper handling of instruments
PSO 09	Enhancement of scientific attitude & scientific hobbies
PSO 10	Abilities to apply scientific methods, collection of scientific data, problem solving, Research Paper Writing, etc
PSO 11	Appreciation of the subject, contributions of scientists, scientific methods, scientific programs. etc

Course Outcome

Sr. No.	Class	Paper No.	Title of the Paper	Course Outcome
1	B.Sc. I	DSC-3A- Chemistry paper I	Inorganic Chemistry	<ol style="list-style-type: none"> 1. Acquisition of knowledge Atomic Structure and Periodicity of Elements. 2. Learning and Understanding chemical bonding and molecular structure, Ionic Bonding. 3. Learning and Understanding chemical bonding and molecular structure valencebond theory (VBT). 4. Learning and Understanding chemical bonding and molecular structure molecular orbital theory (MOT).
		DSC-4A- Chemistry paper II	Organic Chemistry	<ol style="list-style-type: none"> 1. Understanding fundamentals of organic chemistry, Generation, Structure, Stability and Reactions of Reactive Intermediates such as Carbocations, Carbanions and carbon free radicals. 2. Learning and Understanding types of Stereoisomerism, Optical Isomerism, Concept of Chirality, Elements of Symmetry, nomenclature of stereoisomers. 3. Understanding Aromaticity of organic compounds and Mechanism of Electrophilic substitution reactions: Nitration, Sulphonation, Halogenation and Friedel craft reaction. 4. Learning and Understanding Cycloalkanes, cycloalkenes and alkadienes.
		DSC 3B: Chemistry Paper-III	Physical Chemistry	<ol style="list-style-type: none"> 1. Inculcation of Knowledge of chemical energetics. 2. Inculcation of Knowledge of chemical equilibrium. 3. Learning and understanding kinetic theory of gases and derivation of the kinetic gas equation. 4. Able to understand order of reaction. 5. Able to understand theories of reaction rates
		DSC-4B- Chemistry Paper IV	Analytical Chemistry	<ol style="list-style-type: none"> 1. Inculcation of Knowledge of Importance of analysis, Analytical processes, Methods of analysis, Sampling of solids, liquids and

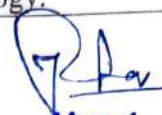
				<p>gases, Errors, accuracy, Significant figures, mean, median, standard deviation.</p> <p>2. Understanding basic Principle of chromatography, Classification of chromatography.</p> <p>3. Understanding theory of titrimetric analysis.</p> <p>4. Inculcation of Knowledge of Water Analysis.</p> <p>5. Understanding necessity and requirements of good fertilizers.</p>
2	B. Sc. II	DSC-3C:Paper V	Physical Chemistry	<p>1. Learning and understanding conductivity and transport number of the aqueous solutions with</p> <p>2. Knowledge and coherent understanding of basic concepts in thermodynamics and concept of Entropy will be gained by the student.</p> <p>3. Learning and understanding the knowledge about basic concepts in kinetics and third order reaction with characteristics, suitable examples, and methods for determination of order of reactions and numerical problems.</p> <p>4. Learning and coherent understanding of behavior of gases, ideal gas as model system and its extension to real gases. The dependence of physical state on P, V and T.</p> <p>5. Learning and understanding of theoretical basis of adsorption phenomenon, dynamic nature of surface and its applications.</p>
		DSC 4C-Chemistry Paper VI	Analytical Chemistry	<p>1. Learning and understanding of basic concepts in gravimetric analysis.</p> <p>2. Students will learn the different water analysis techniques.</p> <p>3. Learning and understanding the knowledge about basic concepts in corrosion and electroplating, mechanism of corrosion, principle of electroplating.</p> <p>4. Learning and coherent understanding of column and ion exchange chromatography.</p> <p>5. Learning of working of petroleum industries, understanding of biofuels, copyrights and trademark</p>
		Paper No. DSC-D3-Chemistry paper No. VII	Inorganic Chemistry	<p>1. Learning and understanding basic concepts about coordination complexes.</p> <p>2. Gain knowledge about applications of chelates in</p> <p>3. Student will be capable of understanding the properties of 3d series elements.</p> <p>4. Understanding the properties of 4f elements.</p> <p>5. Student will learn the basic knowledge about the qualitative analysis of inorganic compounds.</p>

		Paper No. DSC- D4 - Chemistry paper No. VIII	Organic Chemistry	<ol style="list-style-type: none"> 1. To impart knowledge about the synthesis, reactivity and applications of carboxylic acids. 2. Knowledge about classification, preparation and applications of amines and diazonium salts. 3. Understanding the classification, configuration and structure of carbohydrates. 4. Student will be capable of understanding the nomenclature and reactivity of aldehydes and ketones. 5. Student will learn the basic knowledge of conformational analysis of some organic compounds.
3	B.Sc. III	Paper No. DSE-E5, Chemistry Paper No. -IX	Inorganic Chemistry	<ol style="list-style-type: none"> 1. Useful for the study of role of acids and bases in Chemistry. 2. The study of non -aqueous solvents is important to learn all chemical properties of solutes and from the research point of view. 3. Useful to understand geometry, stability and nature of bonding between metal ion and ligand in complexes. 4. The topic deals with the synthesis and the applications of the semiconductors and Superconductors in electrical and electronic devices. 5. The structure, method of preparation and the applications of organo metallic compound in various fields are explained. 6. The classification, types, mechanism and applications of catalyst in industrial fields is explained.
		Paper No. DSE-E6 Chemistry Paper No. X	Organic Chemistry	<ol style="list-style-type: none"> 1. Understanding of energy associated with electromagnetic radiation and its use in analytical technique. 2. Knowledge of chromophore, auxochrome and calculation of λ_{max}. 3. Knowledge of vibrational transitions,

			<p>regions of IR spectrum, functional group recognition.</p> <ol style="list-style-type: none"> Understanding of magnetic-non magnetic nuclei, shielding-deshielding, chemical shift, splitting pattern. Knowledge of molecular ion, fragmentation pattern and different types of ions produced. Student will predict the structure of organic compound with the help of provided spectral data.
		<p>Paper No. DSE- E7 Chemistry Paper No. XI</p>	<p>Physical Chemistry</p> <ol style="list-style-type: none"> Learning and understanding quantum Chemistry. Knowledge about spectroscopy, Electromagnetic spectrum, Energy level diagram, Study of rotational spectra of diatomic molecules Learning and understanding photochemical laws, reactions and various photochemical phenomena. Learning the various types of solutions, relations vapour pressure, temperature relations. Learning and understanding the knowledge of emf measurements, types of electrodes, different types of cells, various applications of emf measurements.
		<p>Paper No. DSE-E8 Chemistry paper No. XII</p>	<p>Analytical Chemistry</p> <ol style="list-style-type: none"> Learning and understanding the techniques of gravimetric analysis. Knowledge of instrumental analysis of alkali and alkaline earth elements. Understanding, working and applications of optical methods as an analytical tool. Understanding theory and applications of potentiometric titrations. Understanding the basics of ion exchange and column adsorption chromatography, Quality control practices in analytical industries / laboratories.
		<p>Paper No. DSE-F5, Chemistry Paper No. -XIII</p>	<p>Inorganic Chemistry</p> <ol style="list-style-type: none"> Understand the thermodynamic and kinetic aspects of metal complexes. Understand role of radio isotopes in medicinal, industrial and Archaeology fields Learning and understanding the characteristics, properties and separation

			<p>of lanthanides and Actinides.</p> <ol style="list-style-type: none"> Understanding techniques involve in ore dressing and extraction of cast iron from its ore. Knowledge about role of various metals and non metals in our health
		<p>Paper No. DSE-F6 Chemistry Paper No. XIV</p> <p>Organic Chemistry</p>	<ol style="list-style-type: none"> Knowledge of reagents used in organic transformations and various reactions used in organic synthesis. Knowing basic terms used in retrosynthetic analysis, retrosynthesis of some organic compounds. Student will learn addition reaction across $>C=C<$ and $-C\equiv C-$ bond Knowledge of terpenoids and alkaloids w.r.t. occurrence, isolation, characteristics and classification. Understanding classification of drugs, Qualities of ideal drug. Synthesis and uses of some representative drugs and Drug action of sulphadiazine.
		<p>Paper No. DSE-F 7 Chemistry Paper No. XV</p> <p>Physical Chemistry</p>	<ol style="list-style-type: none"> Learning and understanding of phase rule, learning of One component, Two component and Three component systems phase diagrams with suitable examples. Knowledge about basic concept of Thermodynamics, free energy, Gibbs-Helmholtz equation and its applications, problem related with it. Learning and understanding Space lattice, lattice sites, Lattice planes, Unit cell. Learning of kinetics, Simultaneous reactions such as i)opposing reaction ii)side reaction iii)consecutive reactions: iv) chain reaction v) explosive reaction Learning and understanding the knowledge of distribution law, its modifications, applications of distribution laws.
		<p>Paper No. DSE-F8 Chemistry Paper No. XVI</p> <p>Industrial Chemistry</p>	<ol style="list-style-type: none"> Learning and understanding the whole process of manufacture of sugar and byproducts of sugar industry. Learning and understanding of physicochemical principles of production of ammonia, sulfuric acid, nitric acid and sodium carbonate along with its

				manufacturing plant. 3. Understanding and learning the classification, synthesis and applications of various polymers. 4. Understanding the petroleum Industry, fuels and need of use of ecofriendly fuels. 5. Understanding and learning of nanotechnology.
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Head

Department of Chemistry
Sri. K. V. S. S. S. Yadav College
Atth. Madhupur Dist. Khatwa

Program Outcome

- Acquired the knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science etc.
- Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life.
- Acquired the skills in handling scientific instruments, planning and performing in laboratory experiments
- The skills of observations and drawing logical inferences from the scientific experiments. Analyzed the given scientific data critically and systematically and the ability to draw the objective conclusions.
- Been able to think creatively (divergently and convergent) to propose novel ideas in explaining facts and figures or providing new solution to the problems.
- Realized how developments in any science subject helps in the development of other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable developments.
- Developed scientific outlook not only with respect to science subjects but also in all aspects related to life.
- Realized that knowledge of subjects in other faculties such as humanities, performing arts, social sciences etc. can have greatly and effectively influence which inspires in evolving new scientific theories and inventions.
- Imbibed ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.
- Developed various communication skills such as reading, listening, speaking, etc., which we will help in expressing ideas and views clearly and effectively.
- Realized that pursuit of knowledge is a lifelong activity and in combination with untiring efforts and positive attitude and other necessary qualities leads towards a successful life.

Program Specific Outcomes

Computer Science

- Serve as the Programmers or the Software Engineers with the sound knowledge of practical and theoretical concepts for developing software.
- Serve as the Computer Engineers with enhanced knowledge of computers and its building blocks.
- Work as the Hardware Designers/Engineers with the knowledge of Networking Concepts.
- Work as the System Engineers and System integrators
- Serve as the System Administrators with thorough knowledge of DBMS. To Give Technical Support for the various systems.
- Work as the Support Engineers and the Technical Writers Work as Consultant and Management officers for system management.
- Work as IT Sales and Marketing person.
- Serve as the IT Officers in Banks and cooperative societies.
- Work as DTP Operator in small-scale industries.
- Serve as the Web Designers with latest web development technologies.

COURSE OUTCOMES

B.Sc I

DSC-11A: PROBLEM SOLVING USING COMPUTERS

On completion of the course, students are able to:

- Understand the Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming, Documentation.
- Understand Linux Operating System and C Language, Introduction to GCC Compiler, Components of Compilation Process.
- Decision Making and Looping Constructs.
- Understand Arrays.

DSC-12A: Database Management System

On completion of the course, students are able to:

- Characteristics of database approach. Data models: Hierarchical, Network, Relational.
- Data independence.
- Entity: Entities: Domain, Attributes, Tuples, Relations, Entity Relationships.
- SQL-99: Schema Definition.

DSC-11B: Programming Skills Using 'C'.

On completion of the course, students are able to:

- Pointers: Pointer Data Type, Pointer Declaration, Pointer Initialization
- Programming for Functional Functions.
- Structure and Dynamic Memory Allocation.
- File Handling.

DSC-12B: Relational Database Management System

On completion of the course, students are able to:

- Basic concept, Relational constraint.
- SQL Clauses:
- Entity Relationship (ER)
- Functional dependencies.
- Functional Decomposition. Normal forms

Practical Paper I

On completion of the course, students are able to develop programs using C to meet real

World needs and able to develop their own websites. This course provides platform to Enhance student's basic skills required for advanced programming.

B.Sc II

DSC-11C PHP and MYSQL

On completion of the course, students are able to:

- Understand how PHP works with lexical structure of it.
- Program for different applications using arrays, functions and strings.
- Aware about different web techniques used in PHP.
- Integrate PHP with MYSQL

DSC-12C Object oriented Programming using C++

On completion of the course, students are able to:

- Be familiar with Object Oriented Programming Environment.
- Differentiate between Structures oriented programming and object oriented Programming.
- Understand different object modeling techniques and analysis like Generalization,
- Aggregation and Metadata.
- Write Reusable, Extensible and Robust programs in C++.

Practical Paper DSC-12C Object oriented Programming using C++

On completion of the course, students are able to develop programs using C++ based on Object oriented concepts and write the ROBUST, EXTENSIBLE and EFFICIENT programs and database system using oracle 10g

DSC-11D Cyber Security Essential-I

On completion of the course, students are able to:

- The learner will gain knowledge about securing both clean and corrupted systems, protect personal data, and secure computer networks.
- The learner will understand key terms and concepts in cyber law, intellectual property and cybercrimes, trademarks and domain theft.
- The learner will be able to examine secure software development practices.
- The learner will understand principles of web security.
- The learner will be able to incorporate approaches for incident analysis and response.
- The learner will be able to incorporate approaches for risk management and best practices.
- The learner will gain an understanding of cryptography, how it has evolved, and some key encryption techniques used today.
- The learner will develop an understanding of security policies (such as confidentiality, integrity, and availability), as well as protocols to implement such policies.
- The learner will gain familiarity with prevalent network and distributed system attacks, defenses against them, and forensics to investigate the aftermath.

DSC 11 Data Stature

On completion of the course, students are able to:

- Select appropriate data structures as applied to specified problem definition.
- Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures. 3Students will be able to implement linear and Non-Linear data structures.
- Implement appropriate sorting/searching technique for given problem.
- Design advance data structure using Non-Linear data structure.
- Determine and analyze the complexity of given Algorithms.

Practical Paper

- Students will try to learn:1. Understand and remember algorithms and its analysis procedure.
- Introduce the concept of data structures through ADT including List, Stack, Queues
- To design and implement various data structure algorithms.
- To introduce various techniques for representation of the data in the real world.
- To develop application using data structure algorithms. 6. Compute the complexity of various algorithms.

B.Sc III

DSE-21E Core Java

On completion of the course the student should be able to:

- Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.
- Read and make elementary modifications to Java programs that solve real-world problems.
- Validate input in a Java program.
- Identify and fix defects and common security issues in code.
- Document a Java program using Javadoc.
- Use a version control system to track source code in a project.

DSE-22E c# Programming

On completion of the course, students are able to:

- By using c# code and ASP.Net create dynamic web pages.
- Using MS Visual Studio.NET IDE and Create Console Applications.
- Know about Basic Principal of OOP, Defining Class and using functions.
- Able to use constructor and destructor.
- Use Polymorphism, MethodOverriding, Method hiding

DSE-23E Linux Part -I

On completion of the course, students are able to:

- To provide introduction to UNIX Operating System and its File System
- Describe the architecture and features of UNIX Operating System and distinguish it from other Operating System
- Understand the basics of operating systems like kernel, shell, types and views of operating systems
- Demonstrate UNIX commands for file handling and process control
- Understand the significance of the seven fields of the ls - l output
- Demonstrate changing of file permissions and ownership
- Discuss various modes in which Vi editor operates

DSE-24E Python Part-I

On completion of the course, students are able to:

- Describe the Numbers, Math functions, Strings, List, Tuples and Dictionaries in Python
- Express different Decision Making statements and Functions
- Interpret Object oriented programming in Python
- Understand and summarize different File handling operations
- Explain how to design GUI Applications in Python and evaluate different database operations
- Design and develop Client Server network applications using Python

DSE-21F

On completion of the course, students are able to:

- Learn the Internet Programming, using Java Applets
- Create a full set of UI widgets and other components, including windows, menus, buttons, checkboxes, text fields, scrollbars and scrolling lists, using Abstract Windowing Toolkit (AWT) & Swings
- Apply event handling on AWT and Swing components.
- learn to access database through Java programs, using Java Data Base Connectivity (JDBC)
- Create dynamic web pages, using Servlets and JSP.

DSE-22F Asp.Net

On the completion of the course, students will be able to:

- Understand the Microsoft .NET Framework and ASP.NET page structure
- Design web application with variety of controls
- Access the data using inbuilt data access tools

- Use Microsoft ADO.NET to access data in web Application
- Configure and deploy Web Application
- Develop secured web application

On completion of the course, students are able to develop Asp.net, Java, Networking using features and services provided by MS visual Studio and win server 2008, JDK.

DES-23F Linux Part-II

On completion of the course, students are able to:

- Discuss the importance of filters and their need in UNIX
- Demonstrate the use of various Sed commands
- Demonstrate splitting a line into fields and format the output
- Write a shell script for specific problem definition
- Demonstrate the use of positional parameters.
- Employ decision making and looping construct to write a shell script
- Demonstrate the use of positional parameters.

On completion of the course, students are able to develop Linux, Advanced Linux, PHP & MYSQL using features and services provided by Redhat, ubuntu, dreamviewer, wampserver.

DES-24 Python Part-II

On completion of the course, students are able to:

- Illustrate the Object-oriented Programming concepts in Python..
- Understand what classes are and why this concept is so important for programming
- Learn how to write classes
- Learn how to redefine operators for classes
- Learn the concept of inheritance
- Develop basic OOP intuitions
- Learn how to write functions that take variable number of arguments
- Learn how the "import" statement works
- Learn how to write modules
- Learn useful modules from the standard library

Attainment of PO, PSO, CO

Attainment of PO and PSO:-

Delivery details of content beyond syllabus

- Library/ internet assignments on contemporary issues.
- Additional laboratory experiments
- Pre-placement Training
- Training on Soft skills and value add programs
- Creative /Projects
- Guest lectures
- Workshops/conference
- Industrial Visits

Attainment of CO:-

The key aspects in Outcome-Based Education (OBE) are the assessment of course outcomes. At the initial stage of OBE implementation, the Course Outcomes (CO's) for each course are defined based on the Programme Outcome (PO's) and other requirements. At the end of each course, the COs needs

It can be determined from the performance of the students in all the relevant assessment instruments – like internal assessments, assignments, quiz and final university examination. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning. Indirect methods such as surveys and interviews ask the stakeholders to reflect on student's learning. They assess opinions or thoughts about the graduate's knowledge or skills. Indirect measures can provide information about graduate's perception of their learning and how this learning is valued by different stakeholders.

(A) Internal Tests/Exams:

- The Internal Assessment marks in theory papers shall be based on two tests generally
- Conducted twice in each semester as per the academic calendar stipulated by the affiliated university.
- There shall be a maximum of 10 Internal Assessment Marks in each theory subjects.

- Question papers for the corresponding course will be prepared by the respective course faculty and will be submitted to the Internal Test Coordinator well in advance.

(B) Laboratory Exam Evaluation:

- The laboratory in-charge will conduct the practical test.
- The evaluation procedure for laboratory courses are done by the laboratory In-Charge(s) based.

(C) Seminar Work Evaluation:

One seminar will be conducted per student in the final year by a committee consisting of the Head of the Department and three senior faculty members of the department whom shall be the Seminar Coordinator(s).

(D) Project Work Evaluation:

- Project work at 6th semester shall be completed batch wise, each batch consisting of a maximum of TWO candidates.
- The Project Coordinator(s) gives the instructions to the students by the end of 5th semester and project batches are formed among the student
- Viva-voce examination in project work shall be conducted batch-wise by the panel of members assigned by the university. Based on the performance of the students, the external viva voce marks are awarded and the same is submitted to the university.

Shri Vijaysinha Yadav Mahavidyalaya, Peth Vadgaon
Department of Botany
Programme Specific Outcome and Course Outcome
on (NEP 2020), CBCS syllabus of Botany

Programme Specific Outcome

Sr. No.	Programme Specific Outcome
PSO 1	Acquisition of knowledge of molecular biology, biotechnology and bioinformatics.
PSO 2	Acquiring the basic procedure in the field of microbiology and plant pathology.
PSO 3	Awareness of natural resources and environment.
PSO 4	Aptitude for scientific work & ability to pursue studies far beyond graduation.
PSO 5	Life science as a career, which is needed now a days.
PSO 6	Applications of scientific principles for organization of scientific exhibitions and competitions.
PSO 7	Development of presentation skills and confidence in students.
PSO 8	Skills based practicals and experiments & development of skill of handling of instruments and practical material.
PSO 9	Enhancement the interests in the subject.
PSO 10	Enhancement of scientific attitude, temper & hobbies.
PSO 11	Abilities to apply scientific methods, collection of scientific data, problem solving methodology, Research paper & project writing, etc
PSO 12	Contribution in scientific method & scientific programs.


Course Outcome


Sr. No.	Class	Theory Paper No.	Title of the Paper	Course Outcome
1	B. Sc. I	DSC-13 A I	Microbes, Algae and Bio fertilizers	<ol style="list-style-type: none"> 1. Students will able to recognize the structure , types and multiplication of viruses. 2. Students will able to understand the bacterial types, structure and mode reproduction 3. Students will able to identify the different types of algae and their importance in day today life. 4. Students will able develop the skills for the production of different type of Bio fertilizers ,
2		DSC 14 A. II	Cell biology and Analytical Techniques.	<ol style="list-style-type: none"> 1. Students will able to distinguish the prokaryotic and eukaryotic organisms and acquire the knowledge of different plant cell organelles and its role in the plant body. 2. Students will able to understand the different types of cell division and it's phases. 3. Students will able to handle all types of microscope. 4. Students will able to develop a skill in the chromatography techniques.
3		DSC 13 B. III	Mycology, Phyto pathology and Mushroom Cultivation	<ol style="list-style-type: none"> 1. Students will able to identify and classify the different fungi and also realize the economic importance of fungi. 2. Students will able to identify the lichens on the basis of morphology and to know the medicinal value of the lichens. 3. Students will be able to recognize the different plant diseases and their management. 4. Students will able to develops the soft skill technique in the Mushroom Cultivation and realize the commercial status of the mushrooms.
4		DSC 14 B. IV	Archegoniate (Bryophytes, Pteridophytes and Gymnosperms)	<ol style="list-style-type: none"> 1. Students will able to identify the bryophytes their importance. 2. Students will able to recognize the characters and ecological importance of

				pteridophytes. 3. Students will be able to identify, classify the gymnosperms and understand the Economic importance of gymnosperms.
		Practical		Acquisition of practical knowledge increases skills and working ability of students to perform experiments on plants.
5	B. Sc. II	DSC 13 C. V	Plant Systematics and Anatomy	<ol style="list-style-type: none"> 1. To know the scope and importance of the plant systematics. 2. To understand plant morphology, nomenclature and classification 3. To prepare and demonstrate herbarium and to understand importance of Botanical gardens. 4. To examine internal organization of plant organs. 5. To differentiate and understand plant tissue systems. 6. To analyze the composition of different parts of plant.
6		DSC 14 C. VI	Genetics and Molecular Biology	<ol style="list-style-type: none"> 1. To understand the principles of Mendelian inheritance and gene interaction. 2. To differentiate between structural and numerical variations in chromosomes. 3. To analyze and solve genetic problems on linkage and crossing over. 4. To know the composition and significance of nucleic acids. 5. To summarize concept of central dogma and genetic code
7		DSC 13 D. VII	Plant Ecology and Economic Botany	<ol style="list-style-type: none"> 1. To understand core concepts of biotic and abiotic components. 2. To gain and insight in to the diverse ecosystem, related food web and ecological pyramids. 3. To prepare map of Phytogeographical regions of India. 4. Know importance of plants and plant products and their utility. 5. To know the centre of origins of different crop plants. 6. To understand importance and conservation of Germplasm.

8		DSC 14 D. VIII	Plant Physiology, Nursery and Gardening Techniques	<ol style="list-style-type: none"> 1. To understand various physiological processes in plants. 2. To understand significance and mechanism of photosynthesis. 3. To know the process of respiration in higher plants. 4. To design outlines of landscaping and home gardening. 5. To propagate plants by seed and vegetative propagation. 6. To prepare different types of gardens and to know garden equipment's
		Practical		Acquisition of practical knowledge Increases skills and working ability of students to perform experiments on plants.
9	B. Sc. III	DSC- E 25. IX	Genetics and Plant Breeding	1. Acquiring the knowledge of genetics and methods of breeding techniques in crop plants
10		DSC- E 26 X	Microbiology, Plant pathology and Mushroom Culture Technology	<ol style="list-style-type: none"> 1. Acquiring the basic procedure in the field of microbiology and plant pathology. 2. Acquiring technology of mushroom cultivation
11		DSC-E 27 XI	Cytology and Research Techniques in Biology	<ol style="list-style-type: none"> 1. Acquiring knowledge of cell biology 2. Ability to handle various instruments in biological research such as SEM, Spectrometer, micrometer
12		DSC- E 28 XII	Horticulture and Gardening	<ol style="list-style-type: none"> 1. To develop the skills in horticulture including nursery, landscaping, gardening, floriculture 2. Students will be able to demonstrate their knowledge, skills and attributes in horticultural profession.
13		DSC- F 25 XIII	Plant Biochemistry and molecular Biology	1. Students are acquainted with basic as well as recent knowledge in the field of molecular biology
14		DSC- F 26 XIV	Bioinformatics, Biostatics and Economic Botany	<ol style="list-style-type: none"> 1. Acquisition of knowledge of bioinformatics, biostatics and economic botany 2. Students are aware about spices, beverages and fibers, cereals, legumes and oils

15	DSC- F 27 XV	Plant Biotechnology and Paleobotany	<ol style="list-style-type: none"> 1. Acquisition of knowledge of plant biotechnology, protoplast culture and recombinant DNA technology (research methodology) 2. Acquainted the scope of Paleobotany in the present scenario and understand the fossil genera.
16	DSC- F 28 XVI	Bio fertilizers and Herbal Drug Technology	<ol style="list-style-type: none"> 1. Acquisition of basic knowledge of biofertilizers, herbal drug technology 2. Student become familiar with organic manures, herbal medicines, herbal cosmetology and pharmacognocny
	Practical		Acquisition of practical knowledge increases skills and working ability of students to perform experiments on plants.


Head
 Department of Botany
 Shri. Vijaysinha Yadav College
 Peth Vadgaon, Dist. Kolhapur


I/C Principal
 Shri Vijaysinha Yadav College,
 Peth Vadgaon, Tal. Hatkanangale,
 Dist. Kolhapur.

DEPARTMENT OF HINDI

2023-24

Programme Outcome (PO): -

- To introduce students with arts & fine arts.
- To inculcate students with Languages.
- To introduce them various social sciences.
- To make them capable of leadership & community
- To develop students' national integration, social awareness.
- To make aware about social, political & economic.

Programme Specific Outcome (POS): -

- Introduced students' various forms of Hindi Literature.
- To introduced students Hindi Literature & Language.
- To develop interest in reading Hindi Literature.
- To understand various techniques, devices of writing Hindi Literature.

Course Outcome (CO)-

- To introduce modern Hindi poetry form to students.
- To introduced essay writing, one act play, short stories of Hindi literature.
- To make them understand novel form of Hindi Literature.
- To understand Hindi Literary criticism.

- To understand Indian & Western Literary criticism.
- To understand History of Hindi Literature.
- To make them aware about ancient Hindi literary writers.
- To introduce students' Hindi language in social media like what's app, Facebook, twitter, Instagram, email.
- To make student capable of translation form Hindi to other languages.
- To introduced students Hindi Language structures, sounds & syntax.
- To make students enable for perfection of Hindi language in use.

Attainments-

- From conducting exams, we achieve the progress report of students.
- From giving projects, we improve research skill of students.
- Presenting seminars, we improve communication skill of students.
- From arranging interview, we increase daring of students.