



Shankarlal Khandelwal Arts, Science & Commerce College, Akola

NAAC: C-II

2.6.1- Semester wise Course Objectives and Course Outcomes



NAAC: CII 2.6.1

Semester wise Course Outcomes	
Arts Program	
Program Name	Name of the Department
BA	English
	Marathi
	Sanskrit
	History
	Economics
	Sociology
	Political
	Home Economics



Semester wise Course Objectives and Outcomes

Name of the Department: English

Name of the Subject: Compulsory English

Sem	Objectives	Outcomes
Semester- I	<ul style="list-style-type: none"> To acquaint the students with literary classic and contemporary texts and to facilitate introspection and deep thinking. To brush up core grammatical concepts To impart the knowledge of Correspondence – Personal and Business To teach how to prepare curriculum Vitae 	<ul style="list-style-type: none"> Students get acquainted with literary classics and contemporary texts. Core grammatical skills are brushed up Students learn Personal and Official business correspondence. Students learn to prepare Curriculum Vitae
Semester- II	<ul style="list-style-type: none"> To acquaint the students with literary classic and contemporary texts and to facilitate introspection and deep thinking. To brush up core grammatical concepts. To enable students write creatively on their own To acquaint them with Notices, Agendas and Minutes 	<ul style="list-style-type: none"> Students get acquainted with literary classics and contemporary texts. Students try to write creatively on their own Students are acquainted with Notices, Agendas and Minutes. Core grammatical skills are brushed up.
Semester- III	<ul style="list-style-type: none"> To enrich the students literary sense and insight. To take the students into the realms of philosophy and art. To brush up core grammatical concepts and communication skills. To enhance students competence and write creatively on their own. 	<ul style="list-style-type: none"> Students receive literary sense and insight. Students get acquainted with philosophy and art. Students' grammatical concepts and communication skills are strengthened. Students learn to write creatively on their own
Semester- IV	<ul style="list-style-type: none"> To enrich the students literary sense and insight. To brush up core grammatical concepts. To enhance students communication skills. 	<ul style="list-style-type: none"> Students receive literary sense and insight. Grammatical concepts are brushed up. Improved communication skills.



Semester- V	<ul style="list-style-type: none"> To enhance the students competence in English. To develop the language, writing and communication skills. To acquaint them with Précis writing. To enable students write creatively on their own and developing a thought. 	<ul style="list-style-type: none"> Students competency in English is enhanced. Language, writing and communication skills are developed. Able to write Précis. Students are able to write creatively on their own.
Semester- VI	<ul style="list-style-type: none"> To enhance the students competence in English. To develop the language, writing and communication skills. To acquaint them with Report writing and Essay writing. 	<ul style="list-style-type: none"> Students competency in English is enhanced. Language, writing and communication skills are developed. Students are acquainted with Essay and report writing.
Semester- I English Literature	<ul style="list-style-type: none"> To introduce the students to the styles of prescribed poets and their poetry. To introduce and enable them the genre of one act play with the help of prescribed plays. Introduction and thorough impart the literary terms and theories. 	<ul style="list-style-type: none"> Students are introduced to prescribed poets and their poetry. Students get knowledge of one act plays. Students get acquainted with various literary terms and theories.
Semester- II	<ul style="list-style-type: none"> To introduce the students to the styles of prescribed poets and their poetry. To introduce and enable them the genre of one act play with the help of prescribed plays. Introduction and thorough impart the literary terms and theories. 	<ul style="list-style-type: none"> Students are introduced to prescribed poets and their poetry. Students get knowledge of one act plays. Students get acquainted with various literary terms and theories.
Semester- III	<ul style="list-style-type: none"> To introduce various literary terms and critical theories. To provide students with fresh and creative angles. To keep the students abreast with changing trends in literature To impart critical analysis and insights for short stories. 	<ul style="list-style-type: none"> Students are introduced to various literary terms and critical theories. Students are provided with fresh and creative angles. Students get knowledge about changing trends in literature Critical analysis and insights for short stories are imparted.



Semester-IV	<ul style="list-style-type: none"> To introduce various literary terms and critical theories. To provide students with fresh and creative angles. To keep the students abreast with changing trends in literature To impart critical analysis and insights for short stories. 	<ul style="list-style-type: none"> Students are introduced to various literary terms and critical theories. Students are provided with fresh and creative angles. Students get knowledge about changing trends in literature Critical analysis and insights for short stories are imparted.
Semester-V	<ul style="list-style-type: none"> To introduce various literary terms and critical theories. To keep the students abreast with changing trends in literature. To impart critical analysis and insights for literary poems. To provide students with fresh and creative angles. 	<ul style="list-style-type: none"> Students get introduced to various literary terms and critical theories. Students get updated with changing trends in literature. Students get acquainted with critical analysis and insights of literary poems. Students are provided with fresh and creative angles.
Semester-VI	<ul style="list-style-type: none"> To introduce various literary terms and critical theories. To keep the students abreast with changing trends in literature. To impart critical analysis and insights for literary poems. To provide students with fresh and creative angles. 	<ul style="list-style-type: none"> Students get introduced to various literary terms and critical theories. Students get updated with changing trends in literature. Students get acquainted with critical analysis and insights of literary poems. Students are provided with fresh and creative angles.
B.Sc Semester-I	<ul style="list-style-type: none"> To acquaint the students with literary classic and contemporary texts and to facilitate introspection and deep thinking. To brush up core grammatical concepts To impart the knowledge of Correspondence – Personal and Business To teach how to prepare curriculum Vitae 	<ul style="list-style-type: none"> Students are acquainted with literary classic and contemporary texts and to facilitate introspection and deep thinking. Core grammatical concepts are brushed up. Knowledge of Correspondence – Personal and Business is given. Preparation of curriculum Vitae is taught.
Semester-II	<ul style="list-style-type: none"> To acquaint the students with literary classic and contemporary texts and to facilitate introspection and deep thinking. 	<ul style="list-style-type: none"> Students are acquainted with literary classic and contemporary texts and to facilitate introspection and deep thinking.



	<ul style="list-style-type: none"> To brush up core grammatical concepts. To enable students write creatively on their own To acquaint them with Notices, Agendas and Minutes 	<ul style="list-style-type: none"> Core grammatical concepts are taught. Students are motivated to write creatively on their own Students get knowledge of Notices, Agendas and Minutes.
B.Com Semester I	<ul style="list-style-type: none"> To know the ways of various business communication To increase the vocabulary of English Language To enable the students to learn the basic principles of language 	<ul style="list-style-type: none"> Students do know the various business communications. students increase the vocabulary of English Language 3) Students learn the basic principles of language.
Semester-II	<ul style="list-style-type: none"> To know the ways of various business communication To increase the vocabulary of English Language To enable the students to learn the advanced principles of language 	<ul style="list-style-type: none"> Students do know the various business communications. students increase the vocabulary of English Language Students learn the advanced principles of language.
Semester-III	<ul style="list-style-type: none"> To enhance the language skills of students. To acquaint the students with various literary texts. To enhance the students' competence in English 	<ul style="list-style-type: none"> Students' language skills are enhanced. Students get introduced to various literary texts. Students' competency in English is enhanced.
Semester-IV	<ul style="list-style-type: none"> To enhance the language skills of students. To acquaint the students with various literary texts. To enhance the students' competence in English. 	<ul style="list-style-type: none"> Students' language skills are improved. Students get introduced to various literary texts. Students competency in English is enhanced.
Semester-V	<ul style="list-style-type: none"> To acquaint the students with the biographies of some of world's greatest entrepreneurs. To develop the students Communication skills. To keep the students abreast with recent concepts in business. 	<ul style="list-style-type: none"> Students are acquainted with biographies of some of world's greatest entrepreneurs. Students communication skills is enhanced. Students get updated with recent concepts in business.
Semester-VI	<ul style="list-style-type: none"> To acquaint the students with the biographies of some of world's greatest entrepreneurs. 	<ul style="list-style-type: none"> Students get acquainted with biographies of some of world's greatest entrepreneurs.



	<ul style="list-style-type: none"> To develop the students Communication skills. To keep the students abreast with recent concepts in business. 	<ul style="list-style-type: none"> Students communication skills are enhanced. Students get updated with recent concepts in business.
M.A Semester- I	<p>1.1. English poetry from Chaucer to Alexander Pope</p> <ul style="list-style-type: none"> To acquaint the students with the early Chaucerian of poetry. To enable the students learn the characteristics of poetry of Pope. To thoroughly impart knowledge about metaphysical poets. 	<p>1.1. English poetry from Chaucer to Alexander Pope</p> <ul style="list-style-type: none"> Students are acquainted with the early Chaucerian of poetry. Students learn the characteristics of poetry of Pope. Knowledge about metaphysical poets is imparted
	<p>1.2 English Drama to Shakespeare Objective –</p> <ul style="list-style-type: none"> To acquaint students with the genre of Drama. To impart thorough knowledge of Shakespearean Drama. To enable them learn about various ways of analyzing, interpreting drama and its techniques. 	<p>English Drama to Shakespeare</p> <ul style="list-style-type: none"> Students are acquainted with the genre of Drama. Students get the knowledge of Shakespearean Drama. Students learn about various ways of analyzing, interpreting drama and its techniques.
	<ul style="list-style-type: none"> 1.3 History of English Literature .3. Objective – To give detail information about the origin and History of English Literature To impart knowledge about Neo classical poetry, Metaphysical school of poetry through prescribed texts. to introduce and teach about the genre Novel its origin and development. 	<ul style="list-style-type: none"> 1.3 History of English Literature Students get detail information about the origin and History of English Literature Students get knowledge about Neo classical poetry, Metaphysical school of poetry through prescribed texts. 3. Students are introduce and taught about the genre Novel its origin and development
	<p>1.4 Proses in English Objective –</p> <ul style="list-style-type: none"> To introduce in detail the genre of Essay and important factors for it's flourishing. To familiarize the students with prose writers from Bacon to William Hazlitt 	<ul style="list-style-type: none"> Students are introduced to the genre of Essay. Students get familiarized with prose writers from Bacon to William Hazlitt. Essay writing and its characteristic features are discussed.



	<ul style="list-style-type: none"> To discuss the form: essay writing and its characteristic features. To impart knowledge about the style of individual writer and their respective themes. 	<ul style="list-style-type: none"> Students get knowledge about the style of individual writer and their respective themes.
M.A I Semester- II	2.1 English Poetry from Wordsworth to Modern Age Part-II <ol style="list-style-type: none"> To give detailed information about the French Revoultion. To introduce the themes and styles of Keats and Browning through their prescribed poems. To introduce Modern Age and its characteristics through poets like W. B. Yeats and T.S.Eliot . 	English Poetry from Wordsworth to Modern Age Part-II <ol style="list-style-type: none"> Detailed information about the French Revoultion is given. The themes and styles of Keats and Browning through their prescribed poems are taught. Modern Age and its characteristics through poets like W. B. Yeats and T.S. Eliot are introduced.
	2.2 Drama <ol style="list-style-type: none"> To make students aware of artistic vision of playwright. To educate students in both the artistry and utility of the English language through the study of Drama. To flourish the language content and understanding 	<ol style="list-style-type: none"> students do aware of artistic vision of playwright. students educate in both the artistry and utility of the English language through the study of students flourish the language content and understanding
	2.3 History of English Literature Part-2 <ol style="list-style-type: none"> To study the genre of drama in Victorian and Modern Age. To impart insights into the genre of poetry of Modern, Victorian and Romantic Age. To study the development in the genre of Prose through fiction of Romanic, Victorian and Modern Age prose. 	2.3 History of English Literature Part-2 <ol style="list-style-type: none"> Students get knowledge of drama in Victorian and Modern Age. Students receive insights into the genre of poetry of Modern, Victorian and Romantic Age. Students study the development in the genre of Prose through fiction of Romanic, Victorian and Modern Age prose.
	2.4 Prose in English <ol style="list-style-type: none"> To explore the prose style and traits of prescribed authors. To teach the definition of greatness in art. 	<ul style="list-style-type: none"> prose style and traits of prescribed authors are explored. Students learn the definition of greatness in art. The idea of imitation, ideas of power, ideas of truth, beauty and power are explored.



	<p>3. To explore the idea of imitation, ideas of power, ideas of truth, beauty, power.</p> <p>4. To teach the theories of Personality by Sigmund Freud.</p>	<ul style="list-style-type: none"> Students are taught the theories of Personality by Sigmund Freud.
M.A. II Semester-III	<p>.3. Indian Writing in English – paper-I</p> <ul style="list-style-type: none"> To give information about the Historical Background of Indian Writing in English. To introduce early Indian poets and their themes, styles, etc. To introduce Indian Novelists from Raja Rao to Amitav Ghosh 	<p>.4. Indian Writing in English – paper-I</p> <ul style="list-style-type: none"> Knowledge about the Historical Background of Indian Writing in English is given. Early Indian poets and their themes, styles, etc. are introduced. Indian Novelists from Raja Rao to Amitav Ghosh are taught.
	<p>.5. Critical Theory - paper-II</p> <ul style="list-style-type: none"> To introduce the field and forms of criticism. To introduce various classical theories of criticism from Plato to Longinus. To give detailed knowledge about theories from Neoclassical to Postmodern era. 	<p>3.1 Critical Theory - paper-II</p> <ul style="list-style-type: none"> Students learn about the field and forms of criticism. Various classical theories of criticism from Plato to Longinus are taught. Students receive the detailed knowledge about theories from Neoclassical to Postmodern era.
	<p>American Literature - paper-III</p> <ul style="list-style-type: none"> To give information about the Historical Background of American Literature. To introduce American Novels and Novelists. To introduce prescribed poets, their poetry and poetic styles. To introduce prescribed dramatists and their dramatic techniques. 	<ul style="list-style-type: none"> Students receive information about the Historical background of American Literature. Students are introduced to American Novels and Novelists. Students are introduced to prescribed poets, their poetry and poetic styles. Prescribed dramatists and their dramatic techniques are introduced.
	<p>3.8 Shakespearean Studies - paper-IV</p>	<p>3.8 Shakespearean Studies - paper-IV</p>



	<ul style="list-style-type: none"> To introduce the Shakespearean theater, and history. To give thorough knowledge about various genres handled by Shakespeare. To give detailed knowledge about prescribed Shakespearean sonnets and other poems. To impart knowledge about criticism on Shakespeare. 	<ul style="list-style-type: none"> Students are introduced to the Shakespearean theater, and history. Students get thorough knowledge about various genres handled by Shakespeare. Students receive detailed knowledge about prescribed Shakespearean sonnets and other poems. Students get knowledge about criticism on Shakespeare.
M.A II Semester-IV	<p>4.1 Indian Writing in English - paper-I</p> <ul style="list-style-type: none"> To introduce modern Indian poetry and poets. To give detailed knowledge about Indian theatre, Indian theatre in English. To impart knowledge about Indian criticism, theory of aesthetics and Indian critics. 	<p>4.1 Indian Writing in English - paper-I</p> <ul style="list-style-type: none"> Modern Indian poetry and poets are introduced. Detailed knowledge about Indian theatre, Indian theatre in English is given. Students get knowledge about Indian criticism, theory of aesthetics and Indian critics.
	<p>.2 Critical Theory Paper-II</p> <ul style="list-style-type: none"> To introduce students to 'New Critics' and criticism. To give knowledge about Marxist theory, Feminism and Psychoanalytical Theory and Dialogic Criticism. To introduce Post Structuralism, Post Modernism, Post Colonialism, New Historicism. 	<ul style="list-style-type: none"> Students are introduced to 'New Critics' and criticism. Students get knowledge about Marxist theory, Feminism and Psychoanalytical Theory and Dialogic Criticism. Students learn Post Structuralism, Post Modernism, Post Colonialism, New Historicism.
	<p>.3 American Literature Paper-III</p> <ul style="list-style-type: none"> To study American Novel and Novella. To study the style of Ezra Pound, Sylvia Plath and Wallace Stevens. To study the novels of John Steinbeck, Toni Morrison and Harper Lee 	<ul style="list-style-type: none"> Students study American Novel and Novella. Students study the style of Ezra Pound, Sylvia Plath and Wallace Stevens. Students study the novels of John Steinbeck, Toni Morrison and Harper Lee



	<p>.4 Colonial and Post Colonial Studies</p> <ul style="list-style-type: none">• To introduce the terms Colonialism and Post Colonialism.• To give detail knowledge about prescribed Colonial writers and their works.	<ul style="list-style-type: none">• Students are introduced to Colonial and Post-Colonial studies.• Students receive detailed knowledge about prescribed Colonial writers and their works.
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H.O.D.



Semester wise Course Objectives and Outcomes

वर्ग बी.ए.भाग १,२,३

मराठी विभाग

विषय :- मराठी व मराठी वाङ्.मय

Sem	Objectives	Outcomes
सत्र १,२,३,४,५, ६ मराठी आवश्यक	विद्यार्थ्यांना विविध क्षेत्रातील वैचारिक लेखन करणाऱ्या लेखकांची ओळख करून देणे.	विद्यार्थ्यांना विविध क्षेत्रातील वैचारिक लेखन करणाऱ्या लेखकांची ओळख होईल.
	विद्यार्थ्यांचे वैचारिक प्रबोधन घडून आणणे.	विद्यार्थ्यांचे वैचारिक प्रबोधन घडून येईल.
	ललित वाङ्.मयाचा विद्यार्थ्यांना परिचय करून देणे.	ललित वाङ्.मयाचा विद्यार्थ्यांना परिचय होईल
	मराठीच्या विद्यार्थ्यांना लालित्यपूर्ण भाषेची ओळख करून देणे.	मराठीच्या विद्यार्थ्यांना लालित्यपूर्ण भाषेची ओळख होईल.
	कवितेचा व कवींचा विद्यार्थ्यांना परिचय करून देणे.	कवितेचा व कवींचा विद्यार्थ्यांना परिचय होईल.
	विद्यार्थ्यांची भाषिक आणि वाङ्.मयीन कौशल्य विकसित करणे	विद्यार्थ्यांची भाषिक आणि वाङ्.मयीन कौशल्य विकसित होतील.
सत्र १ मराठी साहित्य	विद्यार्थ्यांना विविध वाङ्.मय प्रकाराचा परिचय करून देणे	विद्यार्थ्यांना अभ्यासक्रमात कादंबरी असल्यामुळे कादंबरी या वाङ्.मय प्रकाराचा परिचय होईल.

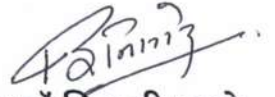


	कवितेतील विविध प्रवृत्तीची व काव्यप्रेरणांची प्रातिनिधीक स्वरूपात ओळख करून देणे.	विद्यार्थ्यांनी नेमलेल्या कवींच्या काव्यप्रेरणा व प्रवृत्तीचा परिचय होईल.
सत्र २ मराठी साहित्य	मराठी साहित्याच्या विद्यार्थ्यांना नाट्य वाङ्.मय या साहित्य प्रकाराचा परिचय करून देणे.	मराठी साहित्याच्या विद्यार्थ्यांना नाट्य वाङ्.मय या साहित्य प्रकाराचा परिचय होईल.
	'अर्वाचीन मराठी कविता' या संपादित काव्यसंग्रहाद्वारे विद्यार्थ्यांना कवितेतील विविध प्रवृत्तींची व विचार प्रवाहाची ओळख करून देणे.	'अर्वाचीन मराठी कविता' या संपादित काव्यसंग्रह द्वारे विद्यार्थ्यांना कवितेतील विविध प्रवृत्तींची व विचार प्रवाहाची ओळख होईल
सत्र ३ मराठी साहित्य	'कथा' या वाङ्.मय प्रकाराचा विद्यार्थ्यांना परिचय करून देणे.	'कथा' या वाङ्.मय प्रकाराचा विद्यार्थ्यांना परिचय होईल
	संत वाङ्.मयाची विद्यार्थ्यांना ओळख करून देणे	संत वाङ्.मय विद्यार्थी अवगत करू शकतील
	संत तुकारामांच्या अभंगांचा विद्यार्थ्यांना परिचय करून देणे.	संत तुकारामांच्या अभंगांचा विद्यार्थ्यांना परिचय होईल
सत्र ४ मराठी साहित्य	मराठीतील 'आत्मकथन' या वाङ्.मय प्रकाराचा विद्यार्थ्यांना परिचय करून देणे.	मराठीतील 'आत्मकथना'चा विद्यार्थ्यांना परिचय होईल
	महानुभाव वाङ्.मयाचा परिचय करून देणे.	महानुभाव वाङ्.मयाचा परिचय होऊन विद्यार्थ्यांना लीळाचरित्रातील कथांचा अभ्यास करता येईल
सत्र ५	मराठीतील विनोदी कथाकारांचा	मराठीतील विनोदी कथाकारांचा



मराठी साहित्य	विद्यार्थ्यांना परिचय करून देणे.	विद्यार्थ्यांना परिचय करून देणे.
	साहित्यातील निर्मितीप्रक्रिया व प्रयोजनांचा व विद्यार्थ्यांना परिचय करून देणे.	'साहित्य विचार' या पुस्तकातील प्रकरण 1 ते 3 चा अभ्यास करता येईल.
सत्र ६ मराठी साहित्य	विद्यार्थ्यांना अनुवादित साहित्याचा परिचय करून देणे.	'एक होता कार्बूर' या वीणा गवाणकर यांच्या पुस्तकाचा परिचय होईल
	विद्यार्थ्यांना भाषा व भाषेतील विज्ञानाचा परिचय करून देणे.	भाषाविज्ञान परिचय या पुस्तकातील प्रकरण 1 ते 3 चा अभ्यास करता येईल

दि. 22/9/2029


प्रा.डॉ.शिवाजी नागरे

प्राध्यापक व मराठी विभाग प्रमुख

प्रा.डॉ.श्रीकृष्ण काकडे

प्राध्यापक मराठी विभाग

Semester wise Course Objectives and Outcomes

Name of the Department: Sanskrit

Name of the Subject: Sanskrit Literature

Sem	Objectives	Outcomes
1	To introduce Old Sanskrit Drama and Details of the same.	Students learnt Famous Sanskrit drama Swapnavasavadattam written by Bhasa.
	To introduce some of Sanskrit Poets and their writings.	Students are aware about life and writings of Sanskrit literature
2	To introduce old Sanskrit Shatak kavyas.	Students are known to some shlokas od Nitishatak and other writings of Bhartruhari.
	To introduce of Paniniya Vyakaran concepts- Samdnya Prakaran	Students are aware of Concept made by Panini
3	To introduce Sanskrit Khandakavya.	Students had studied the Sanskrit khandakavya- Meghdutam.
	To introduce of Paniniya Vyakaran Swar Sandhis	Students can make and divide Swar Sandhis
4	To introduce Sanskrit Khandakavya.	Students had studied the Sanskrit khandakavya- Meghdutam.
	To introduce of Ancient Indian Aesthetics	Students knew some concept of Ancient Indian Aesthetics
5	To Study Drama of Kalidas.	Students had studied The Famous drama of Kalidas- Abhidnyan SHakuntalam.
	To introduce of Paniniya Vyakaran Vyanjan and Visarga Sandhis.	Students can make and divide Vyanjan and Visarga Sandhis.
6	To study Saskrit Gadya kavya.	Students knew the nature of Ancient Gadya kavya- Harshcharitsar.
	To introduce of Sanskrit Alankaras	Students can indentify Alankaras and writes its Definations and examples.


Head, Dept. Of Sanskrit

Semester wise Course Objectives and Outcomes

Name of the Department: Sanskrit

Name of the Subject: Compulsory Sanskrit

Sem	Objectives	Outcomes
Sem I	To introduce Ancient Nitishastra . (HitopdeshaH)	Students knew some principles of Ancient Indian Nitishastra.
	To introduce modern Sanskrit Literature.	Students knew some genres of modern Sanskrit literature
	To make them aware of Ancient Indian thoughts	Students are aware about Ancient thoughts of environmental science and concept of communicative skills
Sem II	To introduce modern Sanskrit literature.	Students knew the nature of modern Biographies and modern poetry. .
	To introduced translated Sanskrit literature	Students can compare between Marathi and Sanskrit translation of Marathi literature
	To introduce Ancient Sanskrit Drama	Students knew the nature of Bhasa's play
Sem III	To introduce old story telling and modern relevance of book Panchatantra.	Students knew the story telling style and modern relevance of Panchatantra.
	To introduce Ancient script of Upanishads, Puranas and Mahabharata	Students knew about puaranic literature and Mahabharata
	To introduce Modern Sanskrit Poetry.	Students knew the stale of modern Sanskrit poetry
Sem IV	To introduce various forms of Subhashitas.	Students are aware of various forms of Subhashitas
	To introduce Modern Sanskrit Mahakavya and Lekhs	Students are aware of Modern Sanskrit Mahakavya Bajiraomastaniyam and Bhartiya Vimman Vidya
	To introduce Indian philosophy.	Students are aware of the philosophy of Bhagvadgita
Sem V	To introduce modern Sanskrit Lalit lekhan and Application of Sanskrit language in modern Computer Science.	Students are aware of modern Sanskrit lalit Lekhan and Application of Sanskrit language in modern Computer Science.

	To introduce Upanishadhic philosophy and literature.	Students knew the stale and philosophy of Upanishadhic literature
	To introduce modern Sanskrit pun literature	Students are aware of modern Sanskrit pun literature
Sem VI	To introduce Alankaras and Navrasas.	Students new the alankar Anyokti and Navrasas
	To introduce Sanskrit Kathliterature	Students new the Sanskrit Katha literature – Kathasaritsagar.
	To introduce the Ancient Indian Political Administration – Kautiliya Arthashastra	Students are aware of Appointment, duties, nature of work and punishments of the officers as given in the Kautiliya Arthashastra


Head, Dept. Of Sanskrit




Semester wise Course Objectives and Outcomes

Name of the Department : History

Name of the Subject : History

Sem	Objectives	Outcomes
I	१) प्राचीन भारताच्या कालखंडातील राजकीय व प्रशासन पद्धतीचा सूक्ष्म अभ्यास करणे. २) प्राचीन भारताच्या कालखंडातील सामाजिक रचनेचा अभ्यास करणे.	१) प्राचीन राजकीय व प्रशासन पद्धतीचा समाजास झालेला उपयोग – निष्कर्ष काढणे. २) प्राचीन कालखंडातील समाज रचनेचा अनुकूल, प्रतिकूल परीणाम.
II	१) सुलतान शाहीतील प्रशासकीय व्यवस्थेचा सूक्ष्म अभ्यास करणे. २) सुलतान शाहीतील अर्थव्यवस्थेचा अभ्यास करणे.	१) सुलतान शाहीतील प्रशासकीय व्यवस्थेचा अनुकूल परिणाम. २) सुलतान शाहीतील अर्थव्यवस्थेचा समाजाला झालेला फायदा. - ज्ञान मिळाले.
III	१) मध्ययुगीन कालखंडातील प्रशासन व्यवस्थेचा सूक्ष्म अभ्यास करणे. २) मध्ययुगीन कालखंडातील शिवकालीन प्रशासन व्यवस्थेची माहिती मिळविणे.	१) मध्ययुगीन कालखंडातील प्रशासन व्यवस्थेचे परिणाम - फायदा. २) शिवकालीन प्रशासन व्यवस्थेचे समाजावर झालेले अनुकूल परिणाम - ज्ञान मिळाले.
IV	१) आधुनिक भारताच्या कालखंडातील ब्रिटिश प्रशासन व्यवस्थेची माहिती मिळविणे. २) भारतीय स्वातंत्र्य लढ्यातील भारतीय क्रांतिकारक व थोर पुरुषांचे योगदान व महत्त्व याविषयी माहिती घेणे.	१) ब्रिटिश प्रशासन व्यवस्थेचे भारतीय समाजावर झालेले अनुकूल व प्रतिकूल परिणाम. २) भारतीय स्वातंत्र्य लढ्यात क्रांतीकारकांचे व थोर पुरुषांचे महत्त्व व योगदान याची सखोल माहिती प्राप्त झाली.
V	१) युरोपच्या इतिहासातील थोर राष्ट्र निर्मात्यांची माहिती मिळविणे. २) युरोप खंडातील फ्रेंच राज्यक्रांतीची माहिती मिळविणे.	१) युरोप मधील थोर राष्ट्रनिर्माते व त्यांचे योगदान याविषयी ज्ञान मिळाले. २) फ्रेंच राज्यक्रांती मुळे जगावर झालेले परिणाम ज्ञान मिळाले.
VI	१) दुसऱ्या जागतिक महायुद्धाची सखोल माहिती मिळेल. २) शितयुद्धाची सखोल माहिती मिळविणे.	१) दुसऱ्या महायुद्धाचे मानवजातीवर झालेल्या प्रतिकूल परिणामांची माहिती मिळाली. २) शितयुद्धामुळे जगावर झालेले अनुकूल व प्रतिकूल परिणाम याची माहिती मिळाली.


 (प्रा० आर०पी० पाटील)



Semester wise Course Objectives and Outcomes

Name of the Department: Sociology

Name of the Subject: B.A.I - Introduction to Sociology

B.A.II - Social Problems in India

B. A. III – Social Anthropology

Sem	Objectives	Outcomes
Sem I – Introduction to Sociology	1. This course is designed to provide basic and theoretical as well as methodological knowledge of sociology for application.	1. This Course aims at the understanding of Sociology with its background of emergence as a discipline in India.
	2. Students will also be acquainted with the basic concepts of sociology along with its position in social science	Elaborating on basic concepts in Sociology, social structure, social system
	3. This Course aims at the understanding of Sociology with its background of emergence as a discipline in Social Sciences	Understand the Population Policy (UN and India), Family Planning and Family Welfare; CO7: Explain Population Education.
Sem II - Introduction to Sociology	1. To develop and in-built the capacity of the students to communicate effectively and use of sociological knowledge for better society.	This course has also relevance in the field of production of knowledge about the human behaviour, social issues and phenomena.
	2. It aims at acquainting the students with the conceptual framework of Indian social system	The sociology not only provides employment opportunities alone, but also makes the students rational, critical and logical.
	3. This course aims at student has some familiarity with Indian society by virtue of the fact that he is a member of it	Elaborating on social institutions like Marriage, Family and Kinship among various religious communities; Decline of Joint Family System – Causes and Consequences.
Sem III- Social Problems in India	1. This paper designed to acquaint the student for understanding the fundamentals and the emerging issues of social problems	This course makes differentiate between common sense knowledge and sociological knowledge.
	2. To enhance the logical and analytical skill	This course has also relevance in the field of production of



	to understand the social issues and problems	knowledge about the human behaviour, social issues and phenomena.
	3. It enables the students to nurture the social bonding among the students.	this course provides scientific vocabulary, terms, concepts, methods and perspectives in accessing the social issues, events and problems.
Sem IV- Social Problems in India	1.It will enable the students to understand the current social problems in India	Demonstrate an ability to express advanced ideas orally at a graduate level.
	2. It will enable the students to understand the crime and white caller crime	Describe Social Structure of Rural & Urban Communities
	3. .This paper aims to inculcate the social and national values	Understand the Concept of Social Welfare, Social Service and Social Work
Sem V – Social Anthropology	1.This course is designed to acquaint the students with human origin.	This course also helps students to qualify the NET/JRF/SET and Competitive Exams such as MPSC/UPSC/Social Welfare Departments and others etc.
	2.The evolution of human society overall the world	Analyse the social institutions in terms of types and functions.
	3 This course put focus on the methods of study of the subject Anthropology & Sociology	Analyse Tribal Problems, Law and Justice – Exploitation of Tribes, Land Alienation and Displacement; Problems of Health and Nutrition.
Sem VI – Social Anthropology	1.This paper aims at biological and cultural aspects of humanity around the globe and throughout time.	After completion of this course, student would get job opportunities in the fields of teachings, research, NGOs, corporate sectors and Governmental sectors.
	2.The goals of this paper are to apply anthropological knowledge to help prevent or solve problems of living peoples, including poverty, drug abuse, and Health	Understand the Population Policy (UN and India), Family Planning and Family Welfare; CO7: Explain Population Education.



	3. This paper aims at acquainting the students with meaning of tribal development .	Understand Tribal Economy, Religion and Magic
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Semester wise Course Objectives and Outcomes

Name of the Department : Political Science

Name of the Subject : Political Science

Sem	Objectives	Outcomes
I	१) भारतीय संविधानाचे सूक्ष्म पद्धतीने अभ्यास करणे. २) भारतीय घटनात्मक तरतुदी चा अभ्यास करणे.	१) भारतीय संविधानाच्या संदर्भात संपूर्ण ज्ञान मिळाले. २) भारतीय घटनात्मक तरतुदीचा सर्वसामान्य नागरिकांवर झालेला परिणाम - फायदे.
II	१) इंग्लंडच्या अलिखित संविधानाचा सूक्ष्म पद्धतीने अभ्यास करणे. २) अमेरिकेच्या संविधानाचा अभ्यास करणे.	१) लिखित-अलिखित संविधानाची सखोल माहिती प्राप्त झाली. २) जगातील सर्वात लहान संविधानाचे परिणाम फायदे.
III	१) भारतीय निर्वाचन आयोगाविषयी माहिती मिळविणे. २) राज्य कार्यकारी मंडळाविषयी माहिती मिळविणे.	१) भारतात निपक्ष पद्धतीने निवडणूका पार पडतात याविषयी माहिती मिळाली. २) राज्यपाल, मुख्यमंत्री आणि मंत्रिमंडळ विषयी माहिती मिळाली.
IV	१) १९८२ च्या चीनच्या संविधानाची मूलभूत वैशिष्ट्ये अभ्यासणे. २) आरक्षणाची ऐतिहासिक पार्श्वभूमी अभ्यासणे.	१) चीनच्या संविधानाच्या वेगवेगळ्या वैशिष्ट्यांची माहिती मिळाली. २) चीनच्या स्थायी समितीच्या भूमिकेविषयी ज्ञान मिळाले.
V	१) नेतृत्वाचे उगमस्थान कोणते याविषयी अभ्यास करणे. २) भारतीय राजकारतील आरक्षणाचा अभ्यास करणे	१) नेतृत्वाचे उगमस्थाने याविषयी माहिती मिळाली. २) भारतीय राजकारणावर आरक्षणाचे झालेले अनुकूल, प्रतिकूल परिणाम.
VI	१) अरिस्टॉटलच्या आदर्श राज्याच्या संकल्पनेचा अभ्यास करणे. २) अब्राहम लिंकन यांच्या लोकशाही विचारांचा अभ्यास करणे.	१) अरिस्टॉटलच्या आदर्श राज्याचा आजच्या आधुनिक समाजावर झालेला परिणाम. २) लोकशाही शासन व्यवस्थेचे समाजावर झालेले अनुकूल परिणाम.

Shankar Lal Khandelwal



Semester wise Course Objectives and Outcomes


Name of the Department: Department of Home Economics,
Shankarlal Khandelwal Arts, Science & Commerce College, Akola.

Name of the Subject: Home Economics

Sem	Objectives	Outcomes
Sem I	To introduce the students about various fields of Home Economics	Home Economics students are known the history of the subject and fields of home economics
	To know the management process.	Home Economics students gain knowledge about management process.
	To create an awareness among students about resources and their management	Home Economics students are learn the types of resources and management of resources.
	To provide knowledge of decision making process that they will make enable to use it.	Home Economics students are known the decision making process with its stages.
	To develop students' aesthetic sense by introducing to elements of art and principles, colour sachem, etc.	By acquiring this knowledge students are able to make greeting cards. Using embroidery practical knowledge students prepared Samples of embroidery work. Increased the students' aesthetic sense. Students have got knowledge about flower arrangement and students are able to prepare Flower Arrangements.
Sem II	To introduce basic principles involved in planning of residential house and for selection of site of home.	Home Economics students are familiar to the terms - Basic needs of home, principles of housing, and factors for selection of site of home.
	To bring awareness about waste management	Students are aware knowledge about disposal methods of waste and type of waste. Students are Select small project on this topic.
	To learn and apply techniques of work simplification	Students have gain knowledge of principles, classes and techniques of work simplification. They have acquired knowledge of methods of work simplification.
	To develop employability skills as the skill of "earning while learning".	Students have got knowledge about employment opportunities and basic information for self employment.
Sem III	To understand the basic concepts of Health,	Students understood the concept related to health



	Food, Nutrition, Nutrients, Malnutrition and Nutritional status	and Nutrition
	To increase the knowledge about food functions and nutritive value of foods.	Ex, Nutritive Dish Competition.
	To develop ability to plan diets on various stages	Balanced diet for Childhood, Adolescence, pregnancy & lactating mother. Ex. Chart making
	To inspire the students for entrepreneurial activities.	Students learn the required skills for entrepreneurial activities. Ex. Stall management
Sem IV	To understand the basic concepts related to Dietetics.	Students are familiar to concepts like Dietetics, Dieticians and diet therapy
	To aware about the work of different agencies in the area of community health.	Students are well known the role of National and International agencies to maintain better community health.
	To help the students to make diet plan for various diseases.	Students are able to make diet plan for various diseases. Ex. Participation in Therapeutic diet completion.
	To understand the methods of food preparation and food preservation.	Students have obtained enough knowledge of Food cooking, pre cooking processes and processes for improving nutritional quality of food
Sem V	To introduce the concept of human development.	Student knows the role of heredity, Environment & family in development of child.
	To study the fields of human development.	Students have got knowledge about fields of human development.
Sem VI	To aware the role of Heredity & Environment in development.	Students aware about the concepts like Personality, Defence Mechanism, Self concept, Leadership, etc.
	To state the role of parent & teacher in child development.	Students have obtained enough knowledge of Food cooking, pre cooking processes and processes for improving nutritional quality of food.
	To Introduce the problems of child.	Students are aware about behaviour problems among children. Also known educational difficulties facing Handicapped children.


Head, Dept. of Home Economics
 Dr. Sandhya A. Kale.



NAAC: C-II 2.6.1

Semester wise Course Outcomes		
Science		
Program Name		Name of the Department
B.Sc.	Sem. I to Sem VI	Microbiology
		Chemistry
		Zoology
		Mathematics
		Physics
		Computer Science



Semester wise Course Objectives and Outcomes

Name of the Subject: Microbiology

Sem	Objectives	Outcomes
Sem 1	<p>1. To make the students know the history and scope of microbiology .</p> <p>2.To make the students understand the basic concepts regarding types of microorganisms, Microbial nutrition, bacterial structure, classification, reproduction and growth.</p> <p>3. To practically learn the techniques of microscopy staining, sterilisation,nutrient media preparation, culturing bacteria and fungi and isolation of pure culture.</p>	<p>1. Students know the basics of introduction of microbiology as a subject of life sciences and its scope.</p> <p>2. Students have the knowledge of types of microorganisms, Microbial nutrition, bacterial structure, classification, reproduction and growth.</p> <p>3. Students can prepare nutrient media, can do sterilisation using autoclave and oven, can study bacteria using compound microscope and staining techniques and can cultivate bacteria in pure culture.</p>
Sem 2	<p>1- To make the student aware about the application and concept of biostatistics in microbiology.</p> <p>2- To make the student understand the process and techniques of pure Culture isolation.</p> <p>3- To make the students aware about the applications of computers in microbiology.</p>	<p>1.Students can understand the application and concepts of biostatistics involved in microbiology.</p> <p>2. Students can perform pure Culture isolation of bacteria.</p> <p>3. Students can use MS word, MS excel, MS powerpoint and internet.</p>
Sem 3	<p>1. To make the student understand the basic concepts and processes of molecular biology including gene multiplication and expression, gene</p>	<p>1 .Students can explain the processes and concepts involved in gene expression, regulation, mutation and recombination.</p>



	<p>regulation ,gene mutation and genetic recombination.</p> <p>2 To make the student understand the process of genetic engineering and the tools and techniques used in genetic engineering</p> <p>3. To make the students aware about the applications of genetic engineering in healthcare, agriculture, environment and industrial sectors.</p> <p>4.To make the students gain the practical knowledge about some of the basic procedures related with recombinant DNA technology.</p>	<p>2. Students have the knowledge of tools and techniques involved in genetic engineering.</p> <p>3. Students have the knowledge of few applications of genetic engineering in healthcare, agriculture, environment and industrial sectors.</p> <p>4. Students can perform DNA isolation agarose gel electrophoresis, estimation of DNA and RNA .</p>
Sem 4	<p>1. To make the students understand the basic concepts of medical microbiology such as epidemiology, infection process and control, immunology and serology.</p> <p>2. To make the students gain the knowledge of various bacteria and other microorganisms as pathogenic agents and also the concepts and techniques regarding antimicrobial chemotherapy.</p> <p>3.To give practical knowledge related with growing and identifying pathogenic bacteria, some tests of serology and haematology.</p>	<p>1. Students understand the basic concepts of medical microbiology such as epidemiology, infection process and control, immunology and serology.</p> <p>2. Students have knowledge of various bacteria and other microorganisms as pathogenic agents and also the concepts and techniques of antimicrobial chemotherapy.</p> <p>3. Students can isolate and identify S. aureus, E. coli, can perform blood grouping, HB%, Widal test and VDRL tests.</p>
Sem 5	<p>1- To make the student understand the basic concepts of environmental</p>	<p>1. Students can explain the processes and concepts involved in</p>



	<p>Microbiology</p> <p>2- To make the student understand the role of microorganism in environment and techniques used in study of environmental microbiology.</p> <p>3-To teach the basic techniques applied in water, soil and agricultural microbiology</p>	<p>environmental microbiology.</p> <p>2.Students know the techniques involved in isolation of microorganisms from environment.</p> <p>3. Students can perform microbiological test for water and soil and can isolate Azotobactor, Rhizobium and antibiotic producing bacteria from soil.</p>
Sem 6	<p>1- To make the student understand the basic concepts of industrial fermentations.</p> <p>2-To make the students gain the knowledge of fermentation processes used for production of alcoholic beverages, acetone, butanol, citric acid, vinegar, Baker's yeast, penicillin, amylase and vit B12.</p> <p>3- To make the students gain the basic knowledge of food and milk microbiology.</p> <p>4-To give practical knowledge of some fermentations and estimations and routine tests of food and milk microbiology.</p>	<p>1. Student can explain the basic concepts of industrial fermentation.</p> <p>2. Students have the knowledge of fermentation processes used for production of alcoholic beverages, acetone, butanol, citric acid, vinegar, Baker's yeast, penicillin, amylase and vit B12.</p> <p>3. Students have the basic knowledge of food and milk microbiology and can perform some tests routinely used for testing the quality of food and milk.</p> <p>4. Students have the practical knowledge of alcohol, wine and citric acid production.</p>


Head, Dept. Of Microbiology

**Shankarlal Khandelwal Arts Science and Commerce
College Akola**

Department of Chemistry

Semester	Learning Objectives	Learning Outcomes
Semester-1	<ol style="list-style-type: none"> To understand the Periodic properties and their trends To inculcate the Knowledge about reactive intermediates in organic chemistry To make the Basic terms in thermodynamics 	<p>On completion of this course students will be able to understand</p> <ol style="list-style-type: none"> Periodic properties and their trends Knowledge about reactive intermediates in organic chemistry Basic terms in thermodynamics
Semester-2	<ol style="list-style-type: none"> To understand the Theory of acids and bases, Noble gases and non aqueous solvents To inculcate the Fundamental reactions in alkyl and aryl halides and alcohol, phenols and ethers To understand the Physical properties and molecular structures of mater. 	<p>On completion of this course students will be able to understand</p> <ol style="list-style-type: none"> Theory of acids and bases, Noble gases and non aqueous solvents Fundamental reactions in alkyl and aryl halides and alcohol, phenols and ethers Physical properties and molecular structures of mater.
Semester-3	<ol style="list-style-type: none"> To understand the Covalent and metallic bonding and basics of quantitative analysis To understand the Thermodynamic and equilibrium and phase equilibrium 	<p>On completion of this course students will be able to understand</p> <ol style="list-style-type: none"> Covalent and metallic bonding and basics of quantitative analysis Thermodynamic and equilibrium and phase equilibrium
Semester-4	<ol style="list-style-type: none"> To understand the Chemistry and elements of transition series and inner transition elements. To understand the Polynuclear hydrocarbons and reactive methylene compounds To understand the Colligative properties of dilute solutions and crystalline state 	<p>On completion of this course students will be able to understand</p> <ol style="list-style-type: none"> Chemistry and elements of transition series and inner transition elements. Polynuclear hydrocarbons and reactive methylene compounds Colligative properties of dilute solutions and crystalline state
Semester-5	<ol style="list-style-type: none"> To understand the Coordination compounds and crystal field theory To understand the Reaction of heterocyclic and organometallic compounds 	<p>On completion of this course students will be able to understand</p> <ol style="list-style-type: none"> Coordination compounds and crystal field theory Reaction of heterocyclic and organometallic compounds

	3. To understand the Theory of photochemistry and molecular spectroscopy	3. Theory of photochemistry and molecular spectroscopy
Semester-6	<ol style="list-style-type: none"> 1. To understand the Theory of kinetic aspects of metal complexes and analytical chemistry 2. To understand the Theory and application of UV-Visible, IR and NMR spectroscopy 3. To understand the Theory of elementary quantum mechanics 	<p>On completion of this course students will be able to understand</p> <ol style="list-style-type: none"> 4. Theory of kinetic aspects of metal complexes and analytical chemistry 5. Theory and application of UV-Visible, IR and NMR spectroscopy 6. Theory of elementary quantum mechanics


Head



Semester wise Course Objectives and Outcomes

Name of the Department: Zoology

Name of the Subject: Zoology

Sem	Objectives	Outcomes
Sem I (Life and diversity of Non Chordata)	1. To understand the animal kingdom. 2. To understand the taxonomic position of animals of protozoa to hemichordates. 3. To understand the general characteristics of animals belonging to protozoa to hemichordates.	1. Describe unique characters of different Phyla of Non Chordata from Protozoa to hemichordates. 2. Recognize life functions of animals in different phyla of Non chordata. 3. Recognise the diversity from protozoa to Hemichordata.
Sem II (Cell Biology & Developmental Biology)	1. To understand the structures of basic components of prokaryotic and eukaryotic cells. 2. To understand the structure and functions of different cell organelles 3. To understand the structure and types of chromosomes. 4. To understand the process of cell division in both somatic and germ cell. 5. To understand the process of gamete formation, fertilization and cleavage. 6. To understand the fundamental embryonic development and complete formation of germ layers.	1. Able to Describe the function and the composition of the plasma membrane 2. Able to Differentiate between prokaryotes and eukaryotes. 3. Able to Understand the importance of the nucleus and its components. 4. Able to Understand how the endoplasmic reticulum and Golgi apparatus interact with one another and know with which other organelles they are associated. 5. Be familiar with the events that lead up to fertilization. 6. Be able to describe the stages and cellular mechanisms for gastrulation.



<p>Sem III</p> <p>(Life and diversity of chordates and concept of Evolution)</p>	<ol style="list-style-type: none"> 1. To understand what the vertebrates are. 2. To understand different categories of vertebrates. 3. To understand the general characters of each class of vertebrates. 4. To understand the level of organization in vertebrate classes. 5. To understand the origin and evolutionary relationship in different classes of vertebrates. 6. To understand how species evolve. 	<ol style="list-style-type: none"> 1. Student should be able to describe unique characters of Pisces, amphibians, reptiles, aves and mammals. 2. Student should be able to recognize life functions of amphibians, reptiles, aves and mammals. 3. To understand the ecological role of different classes of vertebrates. 4. To understand the diversity of vertebrates 5. Able to describe evolutionary history of man. 6. Able to describe origin of species on earth.
<p>Sem IV</p> <p>(Advanced genetics and Animal ecology)</p>	<ol style="list-style-type: none"> 1. Understand how to identify and classify mutations in DNA. 2. Describe the basic aspects of the flow of genetic information from DNA to proteins 3. Describe normal chromosome number, structure, and behaviour in human cells, and understand the cause and effect of alterations in chromosome number and/or structure 4. Objective of ecology is to understand the nature of environmental influences on individual organisms, their populations, and communities, on ecosystems and ultimately at the level of the biosphere. 	<ol style="list-style-type: none"> 1. Taking time to learn about genetics can help you understand your own health and make healthy choices. 2. Learn Functional and Structural Features of Communities. 3. Learnt Functional Characteristics of Ecosystems and The Great Ecosystems in the World. 4. Learnt Ecological Cycles, Biological Accumulation and Evolutional Ecology, Natural Selection, Genetic Variability



<p>Sem V</p> <p>(Animal physiology and Economic Zoology)</p>	<ol style="list-style-type: none"> 1. To provide students with a basic understanding of the fundamental processes and mechanisms that serve and control the various functions of the body. 2. To provide students with an understanding of the fundamental principles of animal physiology. 3. To understand how these principles are incorporated into the adaptations of different animal groups. 4. Economic Zoology deals with animal world that is associated with the economy, health and welfare of humans. 5. It includes culturing animals for mass production for human use and to control or eradicate animals that are injurious to man directly or indirectly. 	<ol style="list-style-type: none"> 1. Students should have an enhanced knowledge and appreciation of Animal physiology. 2. Evaluate how physiological systems work solely and in connection with each other. 3. compare the animal groups physiologically and evolutionary 4. students should be able to perform, analyse and report on experiments and observations in physiology; 5. Information and skill of applied zoology including sericulture, apiculture, fisheries, poultry, vermiculture, agricultural pests and their control etc.
<p>Sem VI</p> <p>(Molecular Biology and Biotechnology)</p>	<ol style="list-style-type: none"> 1. To provide students with the core principles of molecular biology and gain higher level thinking skills that is necessary for scientists. 2. This syllabus will emphasize the molecular mechanisms of DNA replication, repair, protein synthesis etc. 3. Students should be able to demonstrate knowledge and understanding of the molecular machinery of living cells. 4. To empower students with the ability to think and solve problems in the field of biotechnology. 	<ol style="list-style-type: none"> 1. Illustrate that fundamental structural units define the function of all living things. 2. To educate and make them up to date with the current scientific literature, computer programs and web information. 3. To provide education that leads to comprehensive understanding of the principles and practices of biotechnology. 4. Understand and appreciate the diversity of life as it evolved over time by processes of mutation, selection and genetic change

Shahid



Semester wise Course Objectives and Outcomes

Name of the Department: Department of Mathematics

Name of the Subject: Mathematics

Sem	Objectives	Outcomes
Sem I	To use matrix algebra to linear transformations	Student will be able to express linear transforms in other forms, such as matrix equations
	To able to calculate limits in indeterminate forms by a repeated use of L' hospital rule.	Students can apply the Leibnitz's theorem for finding nth derivative of product of two functions
	To know the rules and use it to find derivatives of composite functions	Student will be able to expand functions using Taylor's and Maclaurin's series, Leibnitz theorem and use their applications
Sem II	To Solve second order and higher order linear differential equations	Student will be able to find the complete solution of ordinary differential equations
	To Compute the gradient of scalar and curl, divergence of vector fields.	Introduction to vector space and subspace
	To use the divergence theorem to give a physical interpretation of the divergence of a vector field.	Learn properties of inner product spaces and determine orthogonality in inner product spaces
Sem III	To understand different indeterminate forms of limit.	Student will understand the calculus involving the fundamental tools such as continuity and differentiability
	To learn about some important results in the theory of numbers	Student will be able to apply Euclid's algorithm and backwards substitution
	To learn about number theoretic functions, modular arithmetic and their applications.	Learn methods and techniques used in number theory
Sem IV	To Introduce to various concepts like	Students will understand



Semester wise Course Objectives and Outcomes

Name of the Department: Department of Physics


Name of the Subject: B.SC. Physics (Sem. I To VI)


Sem	Objectives	Outcomes
Sem I		On completion of this course students will -
	To Understand the Keplers law of Planetary motion, Gravitation and Rotational Motion	Know Keplers law of Planetary motion, Gravitation and Rotational Motion
	To inculcate the knowledge of Simple Harmonic motion and its superposition	Simple Harmonic motion and its superposition
	To Understand the Concept of elasticity and kinematics of moving fluids.	Concept of elasticity and kinematics of moving fluids.
Sem II	To Understand the Ideal Gas, real gas and Transport phenomenon in gases, The Laws of Thermodynamics	On completion of this course students will - Know Ideal Gas, real gas and Transport phenomenon in gases, The Laws of Thermodynamics
	To inculcate the knowledge of Liquefaction of gases and thermodynamic relationship, Motion of Charged particles in Electric and magnetic fields.	Liquefaction of gases and thermodynamic relationship, Motion of Charged particles in Electric and magnetic fields.
	To Understand the Concept of Network theorems, ballistic galvanometers, Varying Currents and Alternating Currents	Network theorems, ballistic galvanometers, Varying Currents and Alternating Currents
Sem III	To understand the concept and Mathematical background of Electrostatics and Magneto statics.	On completion of this course students will - be able to understand the Mathematical background of Electrostatics and Magneto statics
	To acquire the basic knowledge of Semiconductor devices and its working	acquire the knowledge of Semiconductor and solid state devices
	To understand the basics of Relativity	understand the Concept of Relativity and Mass Energy Relation
	To impart the knowledge of layers inside and outside the Earth.	acquire knowledge of various layers inside and outside the Earth
	To acquire the numerical solving and Practical skills	be able to solve the numericals and perform the various experiments
Sem IV	To understand the Phenomenon of Interference, Diffraction and Polarization of light	On completion of this course students will - be able to understand the Phenomenon of Interference, Diffraction and Polarization of light
	To acquire the knowledge of production of LASER and its applications	acquire the knowledge of production of LASER and its applications
	To understand the fundamental knowledge of Fibre optics and its applications	understand the fundamental knowledge of Fibre optics and its applications
	To impart the knowledge of renewable, non-renewable energy sources and energy storage methods	acquire the knowledge of renewable, non-renewable energy sources and energy storage methods
	To acquire the numerical solving and Practical skills	be able to solve the numericals and perform the various experiments
Sem V	To Acquire the knowledge of Quantum mechanics	On completion of this course students will - Know the black body radiation. understand Plank's radiation law &



		photoelectric effect. study Compton effect & Heisenberg's uncertainty principle
	To Understand the Schrödinger's Equation & its Application	Know the Schrodinger's wave equation. To understand mathematical operator's. study motion of particle in rectangular box.
	To analyse Atomic & molecular spectra to identify the contents	Know the different atomic models. understand quantum numbers. study Raman effect
	To understand the concept of Nuclear Physics	Know the theory of nucleus. understand alpha & beta decay. study Nuclear reaction & reactor
	To study the CE Amplifier & Hybrid parameters	Know the h-parameters. understand concept of amplifier. study Noise & distortion in amplifier
	To study Oscillators & Multivibrators	Know the concept of feedback. electronic oscillators. study multivibrators
<u>Sem VI</u>	To Study Fundamentals of Statistical mechanics	On completion of this course students will - Know the phase space, unit cell, micro & macro states. understand Boltzmann's entropy relation. study Maxwell-Boltzmann statistics & its applications
	To Study Bose – Einstein Statistics & Fermi Dirac statistics	Know the concept of boson & fermions. understand Bose-Einstein statistics & its applications. study Fermi-Dirac statistics & its applications.
	To study the Geometry, internal structure & physical properties of crystalline materials	Know the crystalline & amorphous solids. understand different crystal structures & X-ray diffraction. study crystal defects
	To Study Electrical properties of materials	Know the concept of drift motion. understand Fermi energy. study band structure in solids.
	To Study Magnetic properties of materials	Know the concept of magnetism. understand types of magnetic materials. To study Hysteresis
	To Acquire the knowledge of Superconductivity & Nano technology	Know the concept of superconductors. understand types of superconductors & BCS theory. study Basic concepts of nanotechnology


Mr. R. K. Shirsat


Dr. H. J. Kharat


Dr. S. K. Devade



Semester wise Course Objectives and Outcomes

Name of the Department: Department of Computer Science

Name of the Subject: Computer Science

Sem	Objectives	Outcomes
I	<ol style="list-style-type: none"> To give knowledge of Computer Fundamental by knowing Basic concepts. To study Basic Computer Language knowledge by knowing C Programming. 	<ol style="list-style-type: none"> Understand the concept & Mechanism of the subject. Understand standard techniques for solving a problem on a computer, including programming techniques i.e., C.
II	<ol style="list-style-type: none"> To acquire knowledge of Website Fundamentals. To gain knowledge about Advance Concepts in C Programming. 	<ol style="list-style-type: none"> Understand the basics of websites and several things related to web pages creation using HTML Language. Understand C programming advanced concepts i.e., arrays, pointers, functions, structures etc.
III	<ol style="list-style-type: none"> To Study the Concept of Data Structure. To Study the C++ Programming at Core Level. 	<ol style="list-style-type: none"> Comprehend the basic areas of Data Structure with its importance. Able to create basic programs with C++ language.
IV	<ol style="list-style-type: none"> To Identify the mechanism of Database. Analysis of PL/SQL at Core Level. 	<ol style="list-style-type: none"> Developed capability to generate own database with different functions. Realise the use of PL/ SQL at accessing database with privileges.
V	<ol style="list-style-type: none"> To obtain concept of .Net Technology. To identify basic system of Java Language. 	<ol style="list-style-type: none"> Get ideas about .net and visual programming concept that helps to develop programming skill. Grasp the means of Object-Oriented concept & core level of Java Language.
VI	<ol style="list-style-type: none"> To Study advanced concept of Java Programming. To Study of VB.net windows application awareness 	<ol style="list-style-type: none"> Procure knowledge about Applet and Event Handling Programming ideas using Java Language. Develop skills to create windows application forms and store their data into respective place, etc.

Pethkar

(Dr. D. H. Pethkar)

FOO

Department of Computer Science
Shri Chhatrapati Shivaji Maharaj Vastu Sangrahalaya



	Group theory, Ring theory	Mathematical concepts and concerned structures, and should be able to follow the patterns
	To acquire working knowledge of the methods of Lagrangian dynamics.	Students will be able to represent the equations of motion for complicated mechanical systems using the Lagrangian and Hamiltonian formulations
	To use differential equations and other advanced mathematics in the solution of the problems in classical mechanics	Student can compute several quantities related to the motion of rigid bodies
Sem V	To understand how abstract ideas and rigorous methods in mathematical analysis can be applied to important practical problems.	Familiarize the students with suitable tools of mathematical analysis to solve problems
	Enable students to apply transforms and variation problem technique for solving differential equations	Student will use Fourier transforms and its inverse for solving different problems
	To analyse system properties based on impulse response and Fourier analysis	Apply Laplace and inverse Laplace transforms to standard functions
Sem VI	To find the dimension of spaces such as those associated with matrices and linear transformations	Understand the concepts of vector spaces, subspaces, bases, dimension and their properties
	To acquire a basic idea of graph, various terms associated and matrix representations of graphs	Students will use various terms of graphs to identify and construct examples
	To familiarize with different types of graphs	Apply algorithms and theorems from graph theory on solving problems

for *Mosh*.

Head, Dept. of Mathematics



NAAC: C-II 2.6.1

Semester wise Course Outcomes		
Commerce		
Program Name	Subject/ Courses	
B.COM	Sem I to Sem VI	English
		Marathi
		Hindi
		Sanskrit
	Sem. I	Computer Fundamental & Operating System-I
		Principles of Economics
		Advanced Accountancy
		Principles of Business Organization
	Sem. II	Computer Fundamental & Operating System-II
		Business Economics
		Finance Accounting
		Principles of Business Management
	Sem. III	Company Account
		Business Mathematics
		Auditing
		Monetary System
		Information Technology & Business Data Processing - I
	Sem. IV	Corporate Accounting
		Business Statistics
		Income Tax
		Indian Financial System
		Information Technology & Business Data Processing - II
	Sem. V	Cost Accounting
		Business Environment
		Business Regulatory Frame Work
		Internet World Wide Web-I
		E-Commerce- I
	Sem. VI	Management Accounting
Economics of Development		
Company Law		
Internet World Wide Web-II		
E-Commerce- II		



Semester wise Course Objectives and Outcomes

Commerce B.Com I

Sem	Objectives	Outcomes
Semester I		
COMPUTER FUNDAMENTAL AND OPERATING SYSTEM –I	<ol style="list-style-type: none"> 1. To impart basic knowledge about computer. 2. To give knowledge about word processing. 	<ol style="list-style-type: none"> 1. Students receive basic knowledge about computer. 2. Get the knowledge about Word processing and working with text and formatting word documents.
PRINCIPLES OF ECONOMICS	<ol style="list-style-type: none"> 1. Students will acquaint basic knowledge about Computer, 2. Students will learn how to work with MS-Word Processing 2007 and MS-PowerPoint 2007. 	<ol style="list-style-type: none"> 1. After studying the subject students gets the knowledge about the concepts of economics such as macroeconomics & micro economics 2. Students get detailed knowledge about utility approach, elasticity of demand, production function and cost and revenue concept.
ADVANCED ACCOOUNTANCY	<ol style="list-style-type: none"> 1. Students will get the knowledge about the basic concepts of microeconomics and its application to business situations. 2. Students were able to understand the real-world market situations and business application. 	<ol style="list-style-type: none"> 1. Students develop conceptual understanding of fundamentals of financial accounting system 2. After studying this subject they receive basic Accounting Knowledge as applicable to business.
PRINCIPLES OF BUSINESS ORGANIZATION	<ol style="list-style-type: none"> 1. To develop conceptual understanding of fundamentals of financial accounting system 2. Students are skilled in accounting for various kinds of business transaction. 	<ol style="list-style-type: none"> 1. Students get familiarized with basic concepts of business. 2. Students get aware about the current trends in business.



Semester II		
COMPUTER FUNDAMENTAL AND OPERATING SYSTEM –II	<ol style="list-style-type: none"> To impart basic knowledge about computer, MS Word. To give knowledge about MS PowerPoint 2007. 	<ol style="list-style-type: none"> Students will acquaint basic knowledge about Computer, Students will learn how to work with MS-Word Processing 2007 and MS-PowerPoint 2007.
BUSINESS ECONOMICS	<ol style="list-style-type: none"> To facilitate the students about basic knowledge about economics. To make aware students about market situation and business application. 	<ol style="list-style-type: none"> Students will get the knowledge about the basic concepts of microeconomics and its application to business situations. Students were able to understand the real-world market situations and business application.
FINANCIAL ACCOUNTING	<ol style="list-style-type: none"> To give knowledge about fundamental accounting system. To skilled students in accounting for various kinds of business transaction. 	<ol style="list-style-type: none"> Students will develop conceptual understanding of fundamentals of financial accounting system Students are skilled in accounting for various kinds of business transaction.
PRINCIPLES OF BUSINESS MANAGEMENT	<ol style="list-style-type: none"> To aware students about business and managerial economics. To give knowledge about market structure and factors pricing. 	<ol style="list-style-type: none"> Students are able to understand business & managerial economics. Students gets the knowledge about market structure and factors pricing.



B.Com II

Sem	Objectives	Outcomes
Semester III		
COMPANY ACCOUNT	<ol style="list-style-type: none"> To impart basic knowledge about Company Accountancy from formation of company to liquidation of company. To give detailed knowledge about process of issue of shares, redemption of shares, profit prior to incorporation, amalgamation absorption and liquidation of company 	<ol style="list-style-type: none"> Students receive basic knowledge about process of formation to liquidation of company. Get the knowledge about how to record financial transactions of issue of shares, redemption of shares, profit prior to incorporation, amalgamation absorption and liquidation of company
BUSINESS MATHEMATICS	<ol style="list-style-type: none"> To understand the basic concept of Mathematics. To have a proper understanding of business mathematical application in economics, finance, commerce & management. 	<ol style="list-style-type: none"> Students get the knowledge of basic concepts of Mathematics. Students are able to apply the knowledge of mathematics in solving business problems.
AUDITING	<ol style="list-style-type: none"> To give knowledge about Auditing. To make students aware about detail process of auditing and special auditing of banking, insurance and educational institutions. 	<ol style="list-style-type: none"> Students get knowledge about auditing. Students are able to do audit and special audit of banking, insurance and educational institutions.
MONETARY SYSTEM	<ol style="list-style-type: none"> To understand the role & purpose of the national monetary system. To understand today's current monetary system 	<ol style="list-style-type: none"> Students are able understand the role & purpose of national monetary system. Students gets knowledge about current monetary system.
INFORMATION TECHNOLOGY & BUSINESS DATA PROCESSING – I	<ol style="list-style-type: none"> To give knowledge about basics of information technology. To give knowledge about use of spreadsheet. 	<ol style="list-style-type: none"> Students gets the knowledge about basics of information technology. Students are able to use spreadsheet.



Semester IV		
CORPORATE ACCOUNTING	<ol style="list-style-type: none"> 1. To make aware about corporate accounting. 2. To give knowledge about Final Accounts of Banking Company, Insurance Company. 3. To understand the process of liquidation of company and valuation of shares and good will. 	<ol style="list-style-type: none"> 1. Students are familiar with the conceptual aspects of corporate accounting. 2. Students are able to prepare financial statements of Bank, Insurance Company, liquidation of company. 3. Students are able to understand liquidation process, valuation share and good will of company
BUSINESS STATISTICS	<ol style="list-style-type: none"> 1. To give knowledge about Statistics. 2. To know the process of analysis of universal data, concepts of dispersion and co-efficient of co-relation. 	<ol style="list-style-type: none"> 1. Students will get the knowledge about Statistics . 2. Students analyze the data ,and are able to do dispersion and co-efficient of co-relation
INCOME TAX	<ol style="list-style-type: none"> 1. To understand the basic concept of Indian Income Tax. 2. To give the knowledge about computation of taxable income under the different heads of income. 3. To understand the process of e- filling procedure, filling of form No. 16, Form No. 10 E, tax planning, advance tax , PAN & TDS. 	<ol style="list-style-type: none"> 1. Students get knowledge about the various concepts used in Income Tax. . 2. Students are able to compute taxable income under the different heads of income. 3. Students gets knowledge about e-filling, filling form-16, 10 E, tax planning, advance tax ,PAN & TDS.
INDIAN FINANCIAL SYSTEM	<ol style="list-style-type: none"> 1. To provide knowledge about financial market, its structure, organization and function. 2. To give knowledge about Indian banking system, banking services its importance and core banking in detail. 	<ol style="list-style-type: none"> 1. Students understand market structure, its organization and function. 2. Students gets the knowledge about Indian Banking system, banking services and core banking.
INFORMATION TECHNOLOGY & BUSINESS DATA PROCESSING – II	<ol style="list-style-type: none"> 1. To familiarize with basics of Database. 2. To give knowledge about database management system and use of Accounting Package for Business Data Processing. 	<ol style="list-style-type: none"> 1. Students understood the database. 2. Students gets the knowledge of database management system and use of Accounting Package for Business Data Processing.



B.Com III

Sem	Objectives	Outcomes
Semester V		
COST ACCOUNTING	<ol style="list-style-type: none"> To exposes the students to the basic concepts and tools used in Cost Accounting. To provide an understanding of the applications of Cost Accounting techniques for determination of cost of production. 	<ol style="list-style-type: none"> Students gets the knowledge about Concept, methods & technique of cost accounting. Students are able to apply cost accounting techniques for determination of cost of production.
BUSINESS ENVIRONMENT	<ol style="list-style-type: none"> To provide knowledge of the Business Environment in India. To understand the sector wise business environment in India. 	<ol style="list-style-type: none"> Student understands the Business Environments in India. Students gets the knowledge about sector wise business environment in India.
BUSINESS REGULATORY FRAME WORK	<ol style="list-style-type: none"> To provide a brief idea about the framework of Indian Business Law. To give knowledge about application of business laws in business regulation. 	<ol style="list-style-type: none"> Students understood the concept of business laws. Students can apply the business laws and its applications in business regulations.
INTERNET & WWW -I	<ol style="list-style-type: none"> To familiarizing the students with the basic concepts and ground rules of Internet and the various services it offers. To provides a basic of operating computer system and business communication. To use HTML to develop websites. 	<ol style="list-style-type: none"> Basic & use of network, internet & related concept and services provided by it. Students are able to apply basic of operating system and business communication. Students gets the knowledge about HTML tags and its uses in developing websites.
E-COMMERCE I	<ol style="list-style-type: none"> To promote and protect interest based of trade, commerce and industry. To make them comprehend its practical aspects as well as growth potential of e-commerce in India. 	<ol style="list-style-type: none"> Students will promote and protect the internet based trade, commerce and industry. Students will realize its practical aspect and growth of e-commerce in India.



Semester VI		
MANAGEMENT ACCOUNTING	<ol style="list-style-type: none"> To give knowledge about basic concepts, tools used in Management Accounting. To provide an understanding of the applications of Management Accounting techniques for management decision making. 	<ol style="list-style-type: none"> Students gain knowledge about concepts, tools in Management Accounting. Students can apply Management Accounting techniques for management decision making.
ECONOMICS OF DEVELOPMENT	<ol style="list-style-type: none"> To provide an insight into various growth models. To give knowledge about applicability of various growth models in present scenario. 	<ol style="list-style-type: none"> Students gets the knowledge about various growth models. They are able to apply various growth models in present scenario.
COMPANY LAW	<ol style="list-style-type: none"> To provide a brief idea about the framework of Company Law. The provides knowledge of various provisions related to incorporation of company, share capital, security market and Company Secretary and company meetings. 	<ol style="list-style-type: none"> Students are able to understand framework of Company Law. Students get familiarize with the various provisions related to incorporation of company, share capital, security market and Company Secretary and company meetings.
INTERNET & WWW -II	<ol style="list-style-type: none"> To provide knowledge of web browsing, web directory search engine. To make students aware about features and services provided by Google. For e.g. Google Drive, Google Class room. To understand M.S. Front Page Express: Concept & features and its uses. 	<ol style="list-style-type: none"> Students able to use services provided by internet, web browsing and web directory of search engine. Students are familiarize with Google drive and various services provided by G Suite and Google classroom and Google Form. Students are aware about M.S. Front Page Express and its uses.
E-COMMERCE II	<ol style="list-style-type: none"> To Protect and promote internet e-commerce business models. To give the knowledge about B2C, B2B online marketing, e-governance and governance models 	<ol style="list-style-type: none"> Students are able to promote and protect e-commerce business models. They understand B2C, B2B online marketing, e-governance and governance models.

Academy



NAAC: C-II 2.6.1

Semester wise Course Outcomes

Bachelor of Computer Application



Semester wise Course Objectives and Outcomes


Name of the Department: **BCA (Bachelor Of Computer Application)**

Name of the Subject:

Sem	Objectives	Outcomes
BCA Sem I	<ul style="list-style-type: none"> • To learn fundamentals of computer & basics programming language C. • To make the students familiarize with the mathematical problems numerically and logically. • To build vocabulary for good Communication Skill. 	<ul style="list-style-type: none"> ❖ The outcome of the semester is to prepare students for basic of graduate degree. ❖ To prepare students for some specialized areas of computer science.
BCA Sem II	<ul style="list-style-type: none"> • To learn basics of Operating System and Advanced C programming language. • To make the students familiarize with the Digital techniques and Advanced Communication Skills. 	<ul style="list-style-type: none"> ❖ An ability to apply knowledge of computer science, mathematics, digital techniques in practice. ❖ Its application too in diverse field.
BCA Sem III	<ul style="list-style-type: none"> • To learn data structure can greatly improve the efficiency of your program and C++ improves C with object-oriented features. Also Advanced OS for the functioning of operating system. • To learn DBMS and electronics and its application to computer science. • . 	<ul style="list-style-type: none"> ❖ The outcome of the semester is to start from the basics and upgrade their knowledge in every semester learns each and everything about computers. ❖ They develop their programming skills by knowing basic concepts related with Programming Language.
BCA Sem IV	<ul style="list-style-type: none"> • To learn SAD, VB and WAD as programming tool to develop software's. • To make the students familiarize with the networking and Adv. Microprocessor. 	<ul style="list-style-type: none"> ❖ The outcome of the semester is to develop programming skills, networking skills. ❖ To learn applications, packages, programming languages and modern techniques of Information Technology.
BCA Sem	<ul style="list-style-type: none"> • To learn higher programming 	<ul style="list-style-type: none"> ❖ The semester prepares the



V	<p>language like JAVA.</p> <ul style="list-style-type: none"> • To learn NS, SE, CG, and E-comm and their role in computer application. 	<p>young professional for a range of computer applications, computer organization, and techniques of computer graphics, software engineering, e-Commerce, Web development, and JAVA.</p> <ul style="list-style-type: none"> ❖ They know the website design.
BCA Sem VI	<ul style="list-style-type: none"> • To learn higher programming language like .NET using ASP • To learn CST, ST, Multimedia, and ADBMS and their role in computer application. 	<ul style="list-style-type: none"> ❖ The semester prepares an ability to design a computing system to meet desired needs within realistic constraints. ❖ In order to enhance programming skills of the young IT professionals, the program has introduced the concept of project development in each language/technology learnt.


 (Dr. Deepti H. Pethkar)
 Head, Of BCA



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Semester wise Course Outcomes

Biomedical Instrumentation

*Shankarlal Khandelwal Arts, Science and Commerce College
Akola.*

Career oriented programme in the Department of Zoology

Biomedical Instrumentation

Biomedical Instrumentation is a parallel course to B. Sc. degree. The course contains operations, maintenance and repair of electronic and modern instruments used in modern hospitals. There is a three tier structure of course

1. Certificate course in Bio-Medical Instrumentation — One Year
2. Diploma course in Bio-Medical Instrumentation— Two Year
3. Advanced diploma course in Bio-Medical Instrumentation -- Three Year

Course outcomes:

- Student enables to operations, maintenance and repair of electronic and modern instruments i.e. ECG, EEG, X-rays, Sonography, CT-scanning, Ultra-sound, MRI etc. used in modern hospitals there is an extensive demand for the imaging technologists.
- There is an ample of career opportunity for candidates as a technician in various nursing homes, modern private and government hospitals.



NAAC: C-II 2.6.1

Semester wise Course Outcomes

Communication Skills in English

DEPARTMENT OF ENGLISH

Career Oriented Programme

COMMUNICATION SKILLS IN ENGLISH

Sr. No.	Outcomes	Objective
1	Students will be able to comprehend the target language.	Students comprehend the target language well.
2	Students will be able to improve their LSRW skills	LSRW skills are improved.
3	Students will be able to enhance their proficiency levels.	The proficiency levels of the students increase.
4	Students will be able to acquire basic knowledge of Phonetics.	Students gain basic knowledge of Phonetics