



PROGRAMME OUTCOMES

The college has clearly stated following learning outcomes stated in vision and mission statement and objectives of the college.

Vision: Reaching to the Unreached

Mission: To offer opportunities of the empowerment to the rural learners by imparting quality higher education within the capacities.

Objectives:

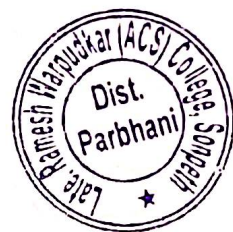
- To strive for imparting higher education to rural masses in general and girls in particular.
- To seek socio-cultural transformation of rural youths.
- To inculcate the values like national integration, patriotism, liberty, equality, fraternity, humanity and tolerance among youths.
- To nurture the quality of social and civil responsibilities among the students.
- To create youths capable to be employed.

The students and staff are made aware of these through the prospectus and meetings. Various curricular, co-curricular, cultural and extension activities are organized to these effects. Fresher's are aware about these objectives in the induction programme. The discipline wise programme outcomes are as following:

Programme outcomes: B A. (Bachelor of Arts)

Our college is affiliated to Swami Ramanand Teerth Marathwada University, Nanded. This college offers B A in English, Marathi, Hindi, History, Political Science, Public Administration and Economics. The university has not designed the programme outcomes in its curriculum. However the college has designed, based on the subjects offered, the following programme outcomes of the B A programme.

1. The study of language, literature and social sciences will develop liberal approach among the students.
2. The students will be able to know the history of mankind, its evolution, progress and making of our nation.



3. Students will get aware of the functioning of the society in its various forms through social institutions like religion, politics, bureaucracy, family, marriage and caste.
4. Students will be able to understand the principals and approaches to the study of arts and literature.
5. The students will be sensitive to the socio-political, economical issues around them.
6. The students will get sensitized to the social, political, economical and gender issues.
7. New socio-political leadership will be developed.
8. The B.A. graduate students can pursue B.Ed. course and opt teaching career in the schools.
9. Students can do Post Graduate Studies in their respective 'subjects studied in 'Under Graduate' level.
10. They are eligible to appear for any competitive exams conducted by Union Public Service Commission (UPSC), Maharashtra Public Service Commission (MPSC), Indian Railway Board, etc for entering into the government services.

Programme Specific Outcomes: B A (English)

1. English language is considered as the window of Knowledge.
2. Most useful for competitive exams at various levels.
3. Useful for electronic and social media
4. Students will get job opportunities in various fields.
5. Student will enable to communicate in English Language in domestic as well as at international platforms.
6. Students will attempt creative writing in different forms.
7. Students will be able to write book review.
8. Students will be able to frame messages, notices, formal letters, personal diary and reports.
9. Students will be able to express their feelings and emotions with correct grammatical structure.
10. Important Function of English literature is to teach a way of living, order of living and pattern of living.

Students will get accustomed with the following forms of literary genre:

A. Poetry/Epic/ Songs

Students will be able to study the very old form of literature i.e. Poetry. They will be able to understand and to express feelings and emotions in lyrical form. They will get acquainted with rhymes and lyrics. There is opportunity for students to try their hands at creative writings.

**B. Drama:**

Since drama is to be enacted on stage, students will get opportunities to perform it on the various occasions and improve their quality of expression. Students will be able to study the drama through the history and will get opportunity to read great dramatists and their popular works.

C. Fiction:

Students will get acquainted with the short and long narratives. Fiction has been the most popular form of literature that enhances the taste of reading. It helps students in widening the sensibilities of the students.

D. Literary Criticism:

Students will be able to develop critical approach to the various literary forms and understand its characters. They will be able to say that how a particular work of art is to be enjoyed. Students will be able to write and analyze literature. Students will understand how practical criticism is performed at various levels.

Course outcomes: Semester I & II**Compulsory English: Paper I**

Name of the course: (Ability Enhancement Compulsory Course):

English Communication B.A./B.Sc./B.Com./B.S.W. First Year (Semesters I and II)

Course Outcomes:

- 1) Through responding to and composing a wide range of texts, the learners will begin to use the English language in the best possible manner.
- 2) Through the close study of texts, students will develop knowledge, understanding and skills in order to communicate effectively in English.
- 3) Learners will value and appreciate the importance of the English language as a key to learning.
- 4) Learners will gain the personal enrichment from study of literary pieces in English.
- 5) Learners will acquire ability to communicate through oral and written texts.

B. A. First Year Optional English

Name of the course: Sem. I

Paper I : Understanding Prose Fiction

Intended Outcome



- 1) Learners will be able to appreciate the texts in English Prose Fiction genre.
 - 2) Through responding to different texts of Prose Fiction, the learners will acquaint themselves with the wide range of expressions in the English language.
 - 3) Learners will carry out the tasks of interpretation of novels and short stories by studying the critical analyses of the prescribed texts.
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Paper II- : Understanding Poetry in English

Intended Outcome

- 1) Learners will be able to appreciate English Poetry with an understanding of diverse poetic forms and themes.
 - 2) Through responding to different Poetic texts the learners will acquaint themselves with the various nuances of poetic expressions in the English language.
 - 3) Learners will carry out the tasks of interpretation of poems by studying the critical analyses of the prescribed texts.
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Sem. II

Paper III- : Understanding Non-Fictional Prose in English

Intended Outcome

- 1) Learners will be able to appreciate English Non-fictional prose with an understanding of various prose writings as developed through ages.
 - 2) Through responding to different Prose writings learners will be enriched in the use of Prose for diverse thematic expressions.
 - 3) Learners will attain a certain degree of proficiency in the interpretation of English prose.
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Paper IV- : Understanding Drama in English

Intended Outcome

- 1) Learners will be able to appreciate English Drama with an understanding of various dramatic texts.
 - 2) Through responding to different plays, learners will be introduced to various types of dramatic experiences.
 - 3) Learners will be able to critically analyze texts from different dramatic genres.
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Course Outcomes:

Compulsory English - Second Year Semester III
(Ability Enhancement Compulsory Course)(AEC)(4)

Course Outcomes:

1. Students will get acquainted with short stories, essays on a variety of important topics,
2. Students will understand and appreciate prose writings of well-known writers,
3. To acquaint them with 'prose', its meaning and importance,
4. Students will be able to explain grammar items such as, Idioms, Phrases, and reported speech etc.
5. Students will be able to write grammatically accurate sentences, by identifying correct reported speech in writing English.

Semester IV

Compulsory English - Second Year
(Ability Enhancement Compulsory Course)(AEC)(4)

Course Outcomes

1. Students will be able to understand and appreciate short lyrical poems.
2. Student will be able to comprehend the inherent rhythmic beauty of lyrical poetry,
3. They will get opportunity to read and understand famous world poets such as Wordsworth, Blake, Keats, Byran, Browning, Lanston Hughes, Tagore etc,
4. Students will comprehend the language skills of listening, speaking, reading and writing.
5. Students will get acquainted with the importance of non-verbal communication, i.e. body language so as to make communicative situations more meaningful, positive and effective.

Optional English - Second Year

Semester III

Paper No. V

Title: Study of Poetry- Sonnets & Elegy

Course Outcomes:

1. Students will get acquainted with the literary genre of 'poetry,' particularly sonnet & Elegy,

2. Students will be able to know the meaning, types, features and functions of “sonnet Elegy.”
 3. Students will be able to read, understand, and appreciate sonnet, elegy.
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Optional English - Second Year Semester III

Paper No. VI

Title: Study of Prose- Essays

Course Outcomes:

1. Students will get acquainted with the literary genre of 'prose,' particularly Essays.
 2. They will understand the meaning, types, features and functions of "Prose -Essays".
 3. Students will get encouraged to read, understand, and appreciate Essays.
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Optional English - Second Year Semester IV

Paper No. VII

Title: Study of Poetry- Odes and Ballads

Course Outcomes:

1. Students will get acquainted with the literary genre of 'poetry,' particularly Odes and Ballads.
 2. They will understand the meaning, types, features and functions of "Odes and Ballads"
 3. Students will get encouraged to read, understand, and appreciate Odes and Ballads.
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Optional English - Second Year: Semester IV

Paper No. VIII

Title: Study of Prose- Autobiography

Course Outcomes:

- 1 Students will get acquainted with the literary genre of 'prose,' particularly Autobiography.
 - 2 They will understand the meaning, types, features and functions of "Autobiography."
 3. Students will get encouraged to read, understand, and appreciate Autobiography.
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Skill Enhancement Course (SEC) - Second Year

Skills for Employability-I

Semester III

Course Outcomes:



1. Students will get the enough confidence to meet the requirements of the 21st century learners.
2. Students will be equipped with rich Vocabulary comprising Spelling and Pronunciation in English.
3. Students will develop dialogues for Conversation Skills.
4. Students will develop for written communication.
5. Students will develop strategies for professional skills and Soft Skills.

Syllabus for Third Year – (Semester + CBCS Pattern Structure)

Optional English

DSE I - Semester V

Course Outcomes:

Title of the course: Literary Theory and Criticism (A) Introduction to Literary Criticism

Course/Paper code: DSE-ENG- I

Course Outcomes:

- 1) The learners would develop a critical ability to judge literary texts
- 2) Critical insight into the past theorists would be developed

GE I –Semester V

Title of the course: Modern English Structure (A) Introduction to English Speech Sounds

1. Course/Paper code: GE-ENG- I

Course Outcomes:

- 1) The learners would be able to understand the system of speech with English sounds
- 2) The ability to understand and reproduce standard patterns of speech is facilitated

DSE II Semester VI

2. DSE-ENG- II-Title of the course: Literary Theory and Criticism (B) Introduction to Literary Theory

Course/Paper code: DSE-ENG- II

Course Outcomes:

- 1) Students will get the knowledge about contemporary theories of criticism.
- 2) Critical ability to carry out practical criticism will get enhanced.

- 3) The learners would develop ability to analyze literary texts according to the rules of prosody.
- 4) Critical insight into the contemporary theories would be developed.
- 6 Student will get acquainted with the global critical schools



Semester VI

GE II –Title of the course: Modern English Structure (A) Introduction to English Grammar

Course/Paper code: GE-ENG- II

Course Outcomes:

- 1) Learners are enabled to understand the logics and practices in the field of English grammar
 - 2) The foundational structure of English grammar is explained
 - 3) Learners would be able to use the language with grammatical correctness
 - 4) Student will get acquainted with the English Word Classes.
 - 5) Student will get acquainted with the word structures and affixes.
 - 6 Student will get acquainted with the basic clauses and phrases in English
 - 7) They will understand the sentence structure and forms and meaning
 - 8) Students will identify the common errors and ambiguities in English sentences.
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B A. T. Y. Skill Enhancement Course

3. Title of the Course: Life Skills-I Sem V &
4. Title of the Course: Life Skills-II Sem VI

Paper Code: SEC-ENG III

Course Outcomes:

1. Learners will get developed with the personal and social skills.
2. Gender awareness will be created among students.
3. Skills for individual and group activities will be developed among students.

MARATHI

BA FY SEM- I - MAR- I

Outcomes -

- 1) कथा वाङ्मयाच्या विविध प्रकारांची ओळख.
- 2) विद्यार्थ्यांची कथात्मदृष्टी विकसित करणे.
- 3) साहित्याभिरुचीच्या आकलनकक्षा रुंदावणे.
- 4) भाषिक आणि वाङ्मयीन सौंदर्यदृष्टीचा विकास.
- 5) मराठीच्या विविध बोलींचा परिचय.

BA FY SEM- I - MAR- II

Outcomes -

१. काव्यप्रवाहातील विचारधारांची ओळख.
२. कवितेमधून प्रकट झालेल्या मानवी मूल्यांचे आकलन.
३. भाषिक आणि वाङ्मयीन सौंदर्यदृष्टीचे विकसन.
४. कवितेच्या विविध रचनाप्रकारांचा परिचय.
५. प्राचीन आणि आधुनिक काव्यप्रकारांची ओळख.

BA FY SEM- II - MAR- III

१. महामानवाच्या व्यक्तिमत्वामधून प्रेरणा.
२. मानवी मूल्यांची रुजवणूक करणे.
३. आत्मकथनपर, चरित्रपर, प्रवासवर्णनपर व इतर कथात्म साहित्यनिर्मितीस प्रेरक वतावरणनिर्मिती.
४. वाचन आणि लेखन अभिरुची वृद्धिंगत करणे.

BA FY SEM- II - MAR- IV

१. आधुनिक मराठी कवितेचा परिचय .
२. काव्यप्रवाहातील प्रकटलेल्या मानवी मूल्यांचे आकलन .



३. कवितेचे रचनाप्रकार, भाषा आणि प्रतिमासृष्टीचा अभ्यास .

४. मराठी काव्य प्रवाहातील वैचारिक अधिष्ठानांचा शोध.

BA SY SEM- III - MAR- V

१. गद्य संकल्पनेचा परिचय.

२. मानवी मूल्यांची रुजवण .

३. आत्मकथनपर, चरित्रपर, प्रवासवर्णनपर व इतर गद्यसाहित्य निर्मितीस प्रेरक .

४. वाचन आणि लेखन यांची अभिरुची वृद्धिंगत करणे.

५. मराठी साहित्याकडे वाचकांना आकर्षित करणे.

BA SY SEM- III - MAR- VI

१. आधुनिक मराठी नाटकाचा परिचय .

२. नाट्यप्रवाहातून प्रकटलेल्या मानवी मूल्यांचे आकलन .

३. मराठी वाङ्मय प्रवाहाच्या स्वरूप आणि व्याप्तीचा मागोवा.

४. नाट्यरचना, प्रकार, भाषा आणि प्रतिमासृष्टीचा अभ्यास .

५. मराठी नाट्यप्रवाहातील वैचारिक अधिष्ठानाचा शोध.

BA SY SEM- IV - MAR- VII

1) कादंबरी वाङ्मयाच्या विविध प्रकाराची ओळख होते.

2) विद्यार्थ्यांची कथात्मदृष्टी विकसित होते.

3) कादंबरी अध्ययनामुळे जीवन आकलनकक्षा रूढावतात.

4) भाषिक आणि वाङ्मयीन सौन्दर्यदृष्टीचा विकास.

5) मराठीच्या विविध बोलींचा परिचय .

BA SY SEM- IV - MAR- VIII





१. विचारधारांची ओळख.
२. मानवी मूल्यांचं आकलन.
३. भाषिक आणि वाङ्मयीन सौन्दर्य दृष्टीचे विकसन.
४. विविध तत्त्वज्ञानाचा परिचय.
५. सामाजिक प्रश्नांची ओळख.

BA SY SEM- IV - MAR- VIII

मराठी लोकवाङ्मय

उपयोगिता

१. लोकधारांची ओळख.
२. मानवी मूल्यांचं आकलन.
३. भाषिक आणि वाङ्मयीन सौन्दर्य दृष्टीचे विकसन.
४. विविध लोकपरंपरांचा परिचय.
५. सांस्कृतिक प्रश्नांची ओळख.

BA SY SEM- III - MAR- SEC -I

१. संभाषण कौशल्य विकासासाठी सहाय्य.
२. मराठी भाषा क्षमतेच्या वाढीस मदत.
३. संभाषण क्षेत्राची दारे खुली
४. विविध व्यवसाय क्षेत्रात संधी

BA SY SEM- IV - MAR- SEC -II

१. लेखन कौशल्य विकासासाठी सहाय्य.
२. मराठी भाषा क्षमतेच्या वाढीस मदत.
३. लेखन क्षेत्राची दारे खुली
४. विविध व्यवसाय क्षेत्रात संधी

BSC TY- SEM- V DSE MAR-I



- १) मध्ययुगीन कालखंडातील महत्त्वपूर्ण भक्तिसंप्रदायांची ओळख .
- २) मध्ययुगीन कालखंडातील वाङ्मयातून प्रकट झालेल्या मानवी मूल्यांचे आकलन
- ३) मध्ययुगीन मराठी वाङ्मयीन चळवळी व प्रेरणांचे आकलन.
- ४) मध्ययुगीन वाङ्मयाच्या निर्मितीवर आणि वाङ्मयाच्या स्वरूपाचे ज्ञान.
- ५) मध्ययुगीन कालखंडातील वाङ्मयीन रचना प्रकारांचा परिचय.

BSC TY- SEM- V GE MAR-I

- १) वाङ्मयीन दृष्टिकोनाचे विकसन.
- २) भारतीय साहित्यशास्त्राची ओळख.
- ३) पाश्चिमात्य साहित्यविचारांचा परिचय.
- ४) रसविचारांचे पायाभूत ज्ञान.
- ५) शब्दांच्या विविध अर्थांचे ज्ञान.

BSC TY- SEC- III

- १) मराठी भाषिक क्षमतांच्या वाढीस मदत.
- २) मराठी भाषिक कौशल्ये विकसाला वाव.
- ३) विविध क्षेत्रातील व्यावसायिक संधी.
- ४) मराठी भाषेतील ग्रंथ प्रकाशनाचे स्वरूप समजून घेण्यास मदत.

BSC TY- SEM- V DSE MAR-II

- १) मध्ययुगीन कालखंडातील महत्त्वपूर्ण भक्तिसंप्रदायांची ओळख .
- २) मध्ययुगीन कालखंडातील वाङ्मयातून प्रकट झालेल्या मानवी मूल्यांचे आकलन
- ३) मध्ययुगीन मराठी वाङ्मयीन चळवळी व प्रेरणांचे आकलन.
- ४) मध्ययुगीन वाङ्मयाच्या निर्मितीचे आणि वाङ्मयाच्या स्वरूपाचे ज्ञान.
- ५) मध्ययुगीन कालखंडातील वाङ्मयीन रचनाप्रकारांचा परिचय.

BSC TY- SEM- V GE MAR-II



- १) भाषिक ज्ञानाची वृद्धी.
- २) मराठी भाषेच्या इतिहासाची ओळख.
- ३) लेखनविषयक सजगता.
- ४) मराठी व्याकरणिक घटकांचे ज्ञान.

BSC TY- SEC- III

- १) मराठी भाषिक क्षमतांच्या वाढीस मदत.
- २) मराठी भाषिक कौशल्ये विकसाला वाव.
- ३) विविध क्षेत्रातील व्यावसायिक संधी.
- ४) मराठी भाषेतील ग्रंथ प्रकाशनाचे स्वरूप समजून घेण्यास मदत.

BSC TY- SEC- IV

- १) विविध प्रकारच्या कार्यक्रमांचे आयोजन.
- २) विविध क्षेत्रांतील व्यवसायांच्या संधी.
- ३) देहबोलीच्या वापरातून प्रभावी संभाषण.
- ४) मुद्रितशोधनासाठीचे कौशल्ये विकसन.
- ५) प्रमाण मराठीच्या नियमांचा लेखनामध्ये उपयोजन.

ECONOMICS

BA FY SEM- I

CCECOI I Micro Economics (Comp.)

- i) Meaning, nature and scope will be studied in this course.
- ii) Student's ability will be utilized to tackle the current economic problems.
- iii) Students will adept more knowledge in the field of modern economics by studying this course.
- iv) This course will increase the utility and application to acquire more satisfaction in life.

CCECOII II Economy of Maharashtra (Optional)

1. Awareness about development in economy of Maharashtra will be created.
2. Students will understand the various challenges of Economy in Maharashtra.



3. Students will study the Problems of economy in Maharashtra.
4. Students will enhance the different concepts of economy in Maharashtra.
5. This study will suggest remedies for different issues of economy in Maharashtra.

OR Statistical Methods (Optional)

1. Students will prepare themselves to understand the statistical methods.
2. Interest among the students to learn technical papers like Statistics, Quantitative Technique, Mathematical Economics and Econometrics will be created.
3. Understanding of the basic concepts of data interpretation with the help of Statistics will be generated.
4. Students will be able to understand basic statistical tools of data analysis.
5. This course is useful for the students to get job where the data analysis is comprehensively used.

BA FY SEM-II

CCECOI III Micro Economics (Comp.)

- i) Student will get the knowledge about Production, Cost and Revenue.
- ii) Students will be acquainted with the various markets from the point of view of competition.
- iii) This course will be helpful to realize the actual market through competitive point of view.
- iv) The acquisition of knowledge about providing share of different factors of production.

CCECOII IV Economy of Maharashtra (Optional)

1. Awareness about development in economy of Maharashtra will be created.
2. Students will understand the various challenges of Economy in Maharashtra.
3. Students will be study the problems of economy in Maharashtra.
4. Students will be enriched with the different concept of economy in Maharashtra.
5. This study suggests remedies for different Problems in economy of Maharashtra.

Statistical Methods (Optional)

1. The students understand the statistical methods.



2. Interest among the students to learn technical papers like Statistics, Quantitative Technique, Mathematical Economics and Econometrics will be generated.
3. Understanding of the basic concepts of data interpretation with the help of statistics will be facilitated.
4. Students will be able to understand the basic statistical tools of data analysis.
5. This course is useful for the students to get job where the data analysis is widely used.

BA SY SEM- III

ECO V Macro Economics - I (Compulsory)

This course aims to develop the broad conceptual frameworks, which will enable students to understand and comment upon real economic issues like inflation, money supply, GDP and their interlinkages

ECO VI Quantitative Techniques –I (Opt.)

The course is helpful to study other branches of economics and research. The course will be useful for the students to understand data analysis, estimation and inference since the course is best on the techniques of statistics.

Economics of Development (Opt.)

1. Course will be useful in understanding the concept of development from many dimensions.
2. Learners will be aware of the different approaches towards development.
3. Course will be useful in understanding different government scheme in the process of economic development .
4. Course enables learners with the current scenario of development among different countries.

SEC-I Cashless Transactions

- Discuss Banking systems inexistence and how they are structured
- Explain the relative importance of new modes of payments (cashless) in transactions.
- Discuss the main types of cashless instruments and the main techniques employed by banks.

BA SY SEM- III

ECO VII Macro Economics - II (Compulsory)



This course aims to develop the broad conceptual frameworks, which will enable students to understand and comment upon real economic issues like employment and multiplier, acceleration, banking system, open economy, and their interlinkages. It will also allow the students to evaluate various macroeconomic policies in terms of a coherent logical structure.

ECO VIII Quantitative Techniques -II (Opt.)

1. Students will get knowledge about how the value of money is decided. 2. Students will study price differentiation between base year and current year. 3. Students will study the change in economic factors in course of times. 4. Students will study the economic & social trend with the help of moving average method.

Economics of Development and Environment. (Opt.)

1. Students would understand the Environmental Concept. 2. Students will know the role of environment in the process of development. 3. Students will have an idea about sustainable development & natural resource management. 4. Learners will be familiar with the concept and theories of welfare.

SEC - II Data Collection

On completion of the course, the student shall be able to

- Demonstrate his/her understanding of sampling methods and the ability to use collection of data
- Identify the appropriate sample techniques for different kinds of research questions
- Identify the appropriate source of data in relation to the collection of research data.
- Able to classify and present the collected data in the form of graph, bar diagram, chart etc.

BA SY SEM- IV

DSE-ECO IX History of Economic Thoughts – I (Optional)

1. Pupils will understand the basic economic concepts by studying the course.
2. Students will be able to solve the economic problems by studying this course.
3. Students will acquire the judgment power by studying the comparative approach.

Mathematical Economics – I (Optional)

1. Students will understand basic economic concept with the help of this course.
2. This course is important to prepare the background for the post graduate course in Economics.



3. Student who study this course will be eligible for MBA course in the future.
4. This course will be useful for preparation of competitive exam.
5. With the help of this course, the basic economic concept of the student will become clearer.

Industrial Economics (Optional)

1. The students will know why the entrepreneurs choose specific locations to establish the Industries.
2. The students will aware about the importance of MNCs in Indian Industrial Economy
3. The students will get knowledge of some large industries, agro based and small scale Industries.
4. The students will learn about the changes in Industrial Policy of India

GE-ECO X Indian Economy (Compulsory)

1. Student will acquire the knowledge of Indian Economy.
2. Student will understand various challenges of Indian Economy.
3. Student will be able to suggest various measures to policy makers for solution of economic problem.

SEC III Financial Inclusion and Financial Literacy

- Completed the essential reading and activities students Should able to :
- Student will be able to create their own financial plan.
- Student will be able to create their own budget. Student will propose a personal saving and Investment plan.
- Student will be examining how their choice of carrier and lifestyles will affect their financial plan.
- Student will be aware about financial inclusion and financial literacy.
- Student face a challenging economical future.

DSE-ECO XI History of Economic Thoughts – II (Optional)

1. Agricultural Entrepreneurship will be adopted by pupils.
2. Students will get knowledge of the exploitation of Indian Economy in the British rule.
3. Students will know how much the political Leadership is successful in solving the economic problems of the society.
4. The students will know the importance of Eastern Economic Ideas on the world level.

Mathematical Economics – II (Optional)



1. Students will understand basic economic concept with the help of this course.
2. This course is important to prepare the background for the post graduate course in Economics.
3. Student who study this course will be eligible for MBA course in the future.
4. This course will be useful for preparation of competitive exam.
5. With the help of this course, the basic economic concept of the student will become clearer.

International Economics (Optional)

International Economics is an exciting and dynamic subject that equips students with the tools which to tackle important real world issues in this age of globalization and financial integration.

GE-ECO XII Public Finance (Compulsory)

1. Student will able to analyze different concept of public finance.
2. The student will understand the imbalance between public revenue and public expenditure.
3. The students will suggest various measures to decrease deficit.
4. The student will be able to evaluate working of recent finance commission.

SEC IV Entrepreneurship Development

On completion of the course, the student shall be able to :

- Understand the concept of entrepreneurship and its functions. The student will also be able to describe the process of entrepreneurship.
- Explain the competencies of an entrepreneur.
- Understand the meaning and ways of generating ideas and able to prepare a business plan.
- Understand the reasons for success and failure of a business plan. Identify the various support structure available for promoting entrepreneurship

HISTORY

BA FY SEM- I and II

CCHIS-I and III History of Ancient India (Up to 647 A.D.)

1. This paper will helps students to know the archaeological and literary sources.
2. The Students will know about the great kings in Ancient India.
3. The Students will study the different religions.



4. The students will study the process of decline of the great Dynasties

CCHIS-II and IV History of India (648 to 1526 A.D.)

1. This paper is useful to understand the political History.
2. This paper helps students to understand the Muslim invasion and their impacts on India.
3. Student will study the Contribution of different dynasties in Indian History.
4. Student will be able to acquire knowledge about changing dynasties and their impact on Indian society.

BA SY SEM- III and IV

CCHISI V and VII-Chhatrapati Shivaji and His Times (1630A.D. to 1707 A.D.)

- 1) It will help the students to understand the most important and inspiring history of Medieval Maharashtra.
- 2) It will help the students to understand the political and administration of this period.
- 3) It will aware the students about various policies regarding Agriculture, Water management, Environment and Scientific approach of Chhatrpati Shivaji Maharaj.
- 4) The students will study the process of Mughal kings and British Governors.

CCHISII VI and VIII- History of India (1526A.D. to 1707 A.D.)

- 1) This paper will help students to know the expansion of Mughal Empire.
- 2) The Students will know about the great kings in this period.
- 3) The Students will study the governor Generals policy.
- 4) The students will study the process of Mughal kings and British Governors

SEC I and II Tourism

- 1) To enhance the views regarding the Indian Tourism.
- 2) To enrich the understanding of the students with reference to creative sites for Tourist.
- 3) To enable the students for their vocational careers.
- 4) To get jobs in Tourism Department and Tourism Industries.
- 5) To conserve the historical Monuments and places in their local areas.



BA TY SEM- V and VI

DSE HIS-I and II P IX and XI History of Modern India (1857A.D. to 1947 A.D.)

1. To enhance the national interest among the students.
2. To support the spirit of competency.
3. To inculcate the National and International virtues in the minds of students.
4. To enlighten the spirit of fellow feeling.
5. To elaborate the Modern Indian History in various contexts.

Landmarks of World History

1. The students will perceive the great revolutions like American Revolution, French Revolution, & Russian revolution.
2. Students will study the social and economical changes in the world history.
3. Student will understand the relations between the nations in the world.
4. Students will streamline the role of League of Nations and U.N.O.
5. Students understand the consequences of the First and the Second World War regarding the present global crises.

DGE HIS-II and IV P X and XII - Social Reformers in Maharashtra & Awakening Movements

1. The students will perceive the great revolutions like American Revolution, French Revolution, & Russian revolution.
2. Students will study the social and economical changes in the world history.
3. Student will understand the relations between the nations in the world.
4. Students will streamline the role of League of Nations and U.N.O.
5. Students understand the consequences of the First and the Second World War regarding the present global crises.

SEC III Appreciation of Indian Art

1. To enhance the views regarding the Indian Art.



2. To enrich the historical understanding of the students with reference to creative arts.
3. To enable the students for their vocational careers.
4. To get jobs in Archaeology Department and Tourism Industries.
5. To conserve the historical Monuments and places in their local areas.

POLITICAL SCIENCE

BA FY SEM- I

CCPOL-I Introduction of Political Concepts

- i) Pupils will understand the basic Political concepts by standing the course.
- ii) Students will be able to solve the Political problems by standing this course.
- iii) Students will acquire the judgment power by standing the various Political ideas, concepts and other Political issues concern with Politics.

CCPOL -II Government & Politics of Maharashtra

- i) Students will understand the basic Political Thoughts by studying the Course.
- ii) Students will be able to solve the Political problems by standing this course.
- iii) Students will acquire the judgment power by studying the various Political ideas, concepts and other Political issues concern with Indian Thoughts.

BA FY SEM- II

CCPOL-I III Introduction of Political Concepts

- i) Pupils will understand the basic Political concepts by standing the course.
- ii) Students will be able to solve the Political problems by standing this course.
- iii) Students will acquire the judgment power by standing the various Political ideas, concepts and other Political issues concern with Politics.

CCPOL -II IV Government & Politics of Maharashtra

- i) Students will understand the basic Political Thoughts by studying the Course.
- ii) Students will be able to solve the Political problems by standing this course.

iii) Students will acquire the judgment power by studying the various Political ideas, concepts and other Political issues concern with Indian Thoughts.



BA SY SEM- III

POL. SCI. v Indian Government And Politics

The outcome of course lies in building ideal citizens competition ready skilled, man power mass awareness about the political structure and functionary among the youth. It will also go a long way in building Democracy and mass awareness among with about Indian Constitutions with their Fundamental Rights and Duties.

POL. SCI. VI International Relations

The Utility of the course Lies in the course Constitution in raising the students awareness about the global International Politics with Key concepts approaches and Political Institutions like UNO. It will also helps students to prepare themselves for competitive exams like UPSC, MPSC etc. moreover it will career like Political analyst Media, Professionals and Ideal Politicians.

SEC I Basic Information and Preparation Skills for Competitive Examination – I

It will help students to eradicate fear of competitive examinations. 2. Pupils will develop skills to pass the competitive examination. 3. Students will know that acquisition of knowledge is a matter of vast study and voracious reading. 4. Students will understand the difference and co-ordination between legislature and bureaucracy.

BA SY SEM- IV

POL. SCI. VII Indian Government And Politics

The outcome of course lies in building ideal citizens competition ready skilled, man power mass awareness about the political structure and functionary among the youth. It will also go a long way in building Democracy and mass awareness among with about Indian Constitutions with their Fundamental Rights and Duties.

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SEC II Basic Information and Preparation Skills for Competitive Examination – II



1. It will help students to eradicate fear of competitive examinations.
2. Pupils will develop skills to pass the competitive examination.
3. Students will know that acquisition of knowledge is a matter of vast study and voracious reading.
4. Students will understand the difference and co-ordination between legislature and bureaucracy.

BA TY SEM- V

SEM-V DSE- POL SCI IX Indian Political Thought OR India's Foreign Policy

This course will encourage students to understand and decipher the diverse and often contesting ways in which the ideas of nationalism, democracy and social transformation were discussed in Pre and Post-independence India.

GE-POL SCI X Western Political Thinker

The course will narrate students the legacy of the thinkers and orient them about continuity and change within the western political tradition. It helps them to study historical aspects western state and society.

SEC III Indian Parliamentary Procedure

The main purpose of this course is to encourage learner for absorbing the skill to solve issues, problems in their day to day life as parliament do for the sake of save and strength then democracy.

BA TY SEM- VI

SEM-VI DSE- POL SCI XI Political Ideology Or

This paper will acknowledge students with various classical political ideologies and its contemporary relevance.

Political Sociology

This course will helpful learners to understand dynamics within political action, power and process in India and across the country.

GE-POL SCI XII Modern Political Analysis

This paper content will be helpful for student to draw new meaning as per recent time they can understand new concept of political science in the reference of modern age.



SEC IV Indian Democracy & Good Governance

This Course will be helpful and encourage students to Acknowledge Democratic Process in India.

PUBLIC ADMINISTRATION

BA FY- SEM-I

CCPA- Basic Principles of Public Administration

- 1) Students will get knowledge of Public Administration.
- 2) They will get knowledge of the new trends in public administration
- 3) Student will understand relations of public administration with other humanities

CCPA- District Administration

1. Student will understand District Administration.
2. Student will understand Structure and function of various Administrative offices of District Administration.
3. They will get knowledge of the Revenue Administration, Police administration and Judiciary system at district and taluka level.

BA FY- SEM-II

CCPAIII- Administrative Organization and Its Principles

- 1) Students will get Basic Knowledge of administrative Organization and its principles.
- 2) Students will get knowledge of the Functions and qualities of chief executive
- 3) Students will understand the importance of public relations in administration.

CCPA- Administrative System of Maharashtra State

- 1) Student will Understand the Role of Chief Minister and State Secretariat in Maharashtra state.

- 2) They will understand Structure and function of State Legislature
- 3) They will provide knowledge of the state government and Administration.



BA SY SEM-III

CCPA-I V Personnel Administration

1. It will provide knowledge of Personnel Administration.
2. Explain the importance of human resources and their effective work in Administration
3. Outline the principles of recruitment and the advantages and disadvantages of Direct & Indirect Recruitment
4. Analyze the key issues related to Promotion , Merit & Seniority principle etc.

CCPA-II VI Rural Local Government

1. Develop a rural local leadership.
2. Awareness of the basic governing system as well as development measures.
3. It will provide knowledge of Three tier system of Panchayati Raj in Maharashtra state.
4. Understand the role of Panchyat Raj Institutes as the main instrument of State to achieve its Rural developmental goals.

SECPA-I I E-Administration

1. The course will help to the students learn about the basic elements of EAdministration.
2. It will provide knowledge of E-devices in Public Administration.
3. Awareness of the basic E- administrative system as well as various issues in Eadministration

CCPA-III VII Financial Administration

1. Awareness of the basic financial system as well as development measures.
2. Explain the importance of Budget and Financial Administration.
3. Analyse the various issues related to Indian Budget.
4. Understand the role of Finance Administration as the main source of development.



CCPA-IV VII I Urban Local Government

1. It help the students Conceptualize about the developmental process as nations develop cities grow, and how planning is done & implemented in a bottom – to- top approach.
2. Awareness of the basic governing system (Urban) as well as development measures.
3. Exhibit the efforts for urban development in Maharashtra state. .

SECPA-II II Administrative Skill

- 1) The course will aid the students to develop their personality..
- 2) It will introduce them about the functioning of the Administrator in Public Administration.
- 3) It will make the students aware of the various issues in Public Administration .

BA SY SEM-IV

DSEPAI IX Indian Administrative Thinkers

1. Students will get knowledge useful for competitive exams like UPSC, MPSC and other Exams
2. Students will study basic concepts and political institutions like Parliament, Supreme Court, Political Parties Constitution and Democracy etc.
3. Students will come to know the administrative and Political setup and Mechanism with roll and functions.
4. It will be helpful to develop sensitive citizenship among the students

DGEPA -I X Indian Administration

1. . Students will get knowledge useful for competitive exams like UPSC, MPSC and other Exams
2. Students will study Key Political concepts like, power diplomacy, propaganda, International Law, UNO National Interest, National Power, Disarmament etc
3. Students will come to know the basic of International Relations.
4. Students will be ready for different carriers like Political analyst, Politicians, Media, Professionals and Sensitive Citizens.

B.A. Third Year Semester – V



DSEPA-I Indian Administrative Thinkers-IX

- 1) Students will acquire basic Knowledge of various Indian Administrative Thoughts.
- 2) Students will approaches to study of Rural Development.
- 3) Students will understand the Administrative system of period of Chhatrapati Shivaji Maharaj.

DGEPA-I

Indian Administration-X

- 1) Students will understand the Administrative system of India
- 2) Students will be able to identify various silent features of Indian Administration.
- 3) Students will be able introduce the Historical background of Indian Administration.

Or

DGEPA-I

Office Administration-X

1. Students will understand the meaning of Office Administration.
2. Students will be able to acquire knowledge of the Office Procedure and Method.
3. Students will be able to identify various problems in Office Administration.

SECPA -III SEC III Disaster Management

- 1) Students will get acquainted to the knowledge of Disaster Management
- 2) Students will understand the role of various factors in Disaster Management.

B.A. Third Year

(Semester :-VI)

Subject :- Public Administration

Paper No:- DSEPA:-II (OR) Western Administrative Thinkers-XI

- 1) Students will be provided with basic Knowledge of administrative theories.
- 2) Students will understand the western Administrative theory.
- 3) Students will be familiarized with basic Knowledge of modern administrative thoughts.



Paper No: - DGEPA: - II Indian Constitution & Administration-XII

- 1) Students will understand the formation of Indian Constitution.
- 2) Students will identify the Role of various Constitutional & Other National Bodies.
- 3) Students will know the fundamental Rights and Duties of Citizen.

(Or)

Paper No:- DSEPA:-II Recent Trends in Public Administration-XI (Or)

- 1) Students will understand the emerging and recent trends in public administration.
- 2) Students will know the Importance of Information Technology in Public Administration.
- 3) Students will get introduced and provide acquired knowledge of Right to Information Act.

Paper No :- SECPA :- IV Administration of Non-Government Organizations

- 1) Students will Provide Knowledge of Non Government Organization and their Administration.
- 2) Students will understand the work of N.G.Os in Nation building.
- 3) Students will be able to understand the Non Government organization and its works.

Sociology

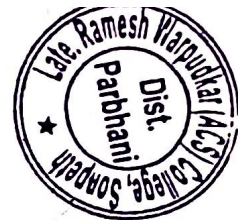
B. A. First Year

Semester- Ist

Paper- I Introduction to Sociology

Outcome:

- 1 Student will be able to demonstrate on understanding of how social call affects individual life.
- 2 Student will be able to understand society in context of the sociology theory: knowledge concepts.



Paper- II New Changes in Social Institutions

Students will obtain a sociological understanding of diverse: social groups: organization and social institutions. Social institutions are usually conceived of as the basic focuses of social organization: common to all societies.

(OR)

Paper- II Agrarian Society: Structure and Change

Students will be able to understand Agrarian Societies which are characterized by their dependence on outside energy flows: low energy: density: and the limited possibilities of converting one every form into another. In order to increase production an agrarian society must either increase the intensity of production.

Semester- IInd Paper- III Basic Concepts in sociology

To understand the basic concepts in sociology and their fundamental theoretical interrelationship: such that students will be able to do define: give examples: show interrelationships and demonstrate the relevance.

Semester- IInd Paper- IV Contemporary Social Institutions

Students can refer to mechanism of social order: which govern the behaviour of set of individuals within a given community. Moreover: institutions are identified with social purpose: transcending individuals and intention by mediating the rules that govern living behavior. Debates about the social impact of sociology have been historically centered.

Semester- IInd Paper- IV Indian Rural Sociology

Students will understand importance of rural sociology in agricultural extension and interrelationship & with processes. This course explores social life along the rural community and also provides a broad introduction to the issues and perspectives in rural sociology.

SOCIOLOGY

B.A. Second Year

(Semester - IIIrd) (CBCS Pattern Syllabus) V - Indian Society: Structure and Change

Sociologists are typically motivated by the desire to better understand the principles of social life and by the conviction that understanding these principles may aid in the formulation of enlightened and effective social policy. India is a land of diverse religions. Social Structure of India underwent some changes. The Indian society in the recent past, particularly since the Independence. There are two main forms of social stratification caste and class both are the



agencies of social mobility and selection. They decided largely the position that man occupies in society Democracy is very much linked with modernization. Secularism and National integration are soul of India. This course gives insights about social change in India.

B. A. Second Year (Semester - IIIrd) (CBCS Pattern Syllabus) VI - Human Rights and Social Justice

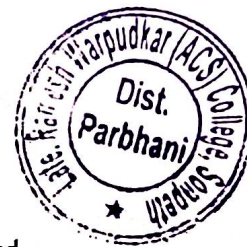
Principles of human rights are fundamental rights. Justice is the concept of fairness. Social Justice and human rights have a shared goal human dignity, equally for all. The issues that make social justice difficult to achieve, such as poverty, exclusion and discrimination are in direct contradiction with human rights, which apply to all individuals indiscriminately. Human rights can help to fight in dignity. In addition to promoting equality generally human rights protect against direct and indirect discrimination based on certain characteristics. Human rights provide legal framework that allows individuals to hold government to account and requires the state to create conditions necessary for the achievement for social justice.

B.A. Second Year (Semester - IIIrd) (CBCS Pattern Syllabus) (SEC-I) Personality Development

Personality Development course will polish students presentation and communication skill and proper to successful career. Apply the understanding of communication skill into everyday practice and understanding the importance of human life.

B.A. Second Year (Semester - IVth) (CBCS Pattern Syllabus) VII - Issues and Problems in Indian Society

Thomas Pen addresses the individual's duty to "allow the same right to other as we allow ourselves." A social issue is a problem that influences many citizens within a society and one that many people strive to solve. It is often the consequence of factors extending beyond an individual's. After studying this course students should be able to illustrate what is a social about social science. Demonstrate how certain social contraption become dominant. Distinguish how labelling something can create excretion about behaviour and action.



Programme outcomes: B Com (Bachelor of Commerce)

Our college is affiliated to Swami Ramanand Teerth marathwada University, Nanded. This college offers B Com under graduate level. The university has not designed the programme outcomes in its curriculum. However the college has designed, based on the subjects offered, the following programme outcomes of the B Com programme.

1. B.Com. graduates can pursue Post Graduate Studies like M.Com., MBA, MCA, ICWA, ISCI, etc.
2. B. Com students can choose Career Options like , Chartered Accountancy, Banking Services, Insurance Sectors, Marketing, Company Secretaryship, Stock Exchange Services, Tax Consultancy, Management & Planning, Entrepreneurship, Law etc.
3. They are eligible to appear for any competitive exams conducted by Union Public Service Commission (UPSC), Maharashtra Public Service Commission (MPSC), Indian Railway Board, etc for entering into the government services.
4. The B.Com. graduate students can pursue B.Ed. course and opt teaching career in the schools.
5. After completing three years for Bachelors in Commerce (B.Com) program, students would gain a thorough grounding in the fundamentals of Commerce and Finance.
6. The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business.
7. The all-inclusive outlook of the course offer a number of value based and job oriented courses ensures that students are trained into up-to-date.

B.Com I Year (Ist Semester)

Fundamental of Financial Accounting

Paper No. BC 1.1

Course Outcome :

Student Can Understand the :

- i) Accounting Knowledge
- ii) Application of Accounting in Business

B.Com. I Year (Ist Semester)

Paper No. BC 1.2

Business Statistics

Course Outcome:

Student can understand the basic concept of statistics and its application in business and data



analysis.

B.Com. First Year Revised Syllabus

Semester Ist (CBCS Pattern)

Paper No. BC 1.3

Business Economics-I

Course Outcome: Students will be acquainted with the business economic principles and theories as are applicable in business.

B.Com. I Year (I Semester)

Paper No. : BC 1.4

Fundamentals of Business Communication

Course Outcome: - Adequate Knowledge about good communication in business

B.Com. I Year (I st Semester)

Paper No. : BC 1.5.1

Computer for Business

Course Outcome: - Adequate Knowledge about Information technology

B.Com. I Year (I Semester)

Paper No. B.C. 1.5.2

Office Management

Learning outcomes: -

- 1 Students can understand the practices of office administration
- 2 The students can learn to maintaining the official files and documentation.

B.Com. Second Year Syllabus

Semester III (CBCS Patterns)

Paper No. BC.3.1

Corporate Accounting

Course Outcomes:

1. The course is beneficial to understand the provision of company act 1956 regarding the preparation of accounts.
2. It is beneficial for students to move in to advance areas i.e. C.A, I.C.W.A, CS etc
3. It could help graduates to work as financial analyst, HRM officers.
4. It provides the knowledge of differentiating the profit Prior and post Incoorporation.



5. It provides the basic concept of knowledge of buyback, forfeitures of shares.

B.Com. Second Year Syllabus

Semester III (CBCS Patterns)

Paper No. BC.3.2

Cost Accounting

Course Outcomes:

On completion of this course students will be capable for

1. The selection of the appropriate cost accounting and their impact on the business policy.
2. The determination of cost as per element per unit of production.
3. The Identification and control of cost of production.
4. Becoming a superior Cost accountant and cost analyst.

B.Com. Second Year Syllabus

Semester III (CBCS Patterns)

Paper No. BC.3.3

Principles of Business Management

Course Outcomes:

1. Successfully completion of this course, students will be able to understand the Managerial functions.
2. To understand the way of implementation of the planning process within the organization.
3. It would help the students to clarify the basic and fundamental concepts of the management systems.
4. To illustrate the ability to directly leading and communicating effectively.
5. It would be useful for analysing, evaluating and synthesizing the information of management.

B.Com. Second Year Syllabus

Semester III (CBCS Patterns)

Paper No. BC.3.4

Mercantile Law

Course outcomes:

Students will be able to apply and follow the rules and regulations as per the various business and mercantile laws.



B.Com. Second Year Syllabus

Semester III (CBCS Patterns)

Paper No. BC.3.5

Fundamentals of Income Tax

Course Outcomes:

1. After Completion of course students will be capable to describe the provisions in the corporate tax law which can be used for tax planning.
2. Students can well define the residential status of the assets.
3. Student of the course will be able to explain different type of income of their tax liabilities, expenses and their deduction ability.
4. Students who complete their course will be able to learn various direct and indirect taxes and their implications
5. Students of the course will be able to state the use of various deduction to reduce the taxable income.
6. Student will be capable of choosing a career to become a Tax consultant.

B.Com. Second Year Syllabus

Skill Enhancement Course -I

Semester III (CBCS Patterns)

Paper No. SEC.1.1

Management Skills

Outcomes: After acquired the skills of management students be capable

- 1 Improve the technical skill and ability
- 2 students can develop his analytical ability & competent use of tool, work resolved the solve the problems
- 3 It help to coordinate and resolved the conflict within organisations
- 4 It can develop the team work
- 5 It help to develop integrity, self-awareness dedication, external conduct amongst the people

B.Com. Second Year Syllabus

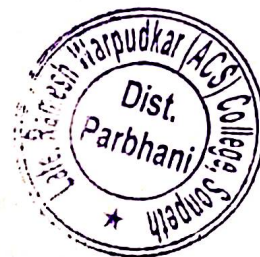
Skill Enhancement Course -I

Semester III (CBCS Patterns)

Paper No. SEC.1.2

Banking Service Skills

Course Outcomes



- 1 It is helpful to acquaint the knowledge of banking procedure
- 2 It is helpful to understand the detail knowledge of banking and financial situations
- 3 It is helpful to enable Banking, Economics, and management experience

B.Com. Second Year Syllabus

Skill Enhancement Course -I

Semester III (CBCS Pattern)

Paper No. SEC.1.3

Basic Accounting skills

Course Outcomes:

The students will be able to handle basic accounting practices skillfully.

B. Com. Third Year

Semester Vth (CBCS Pattern)

BC.5.1 Advanced Accounting – I

Course Outcomes Student can acquire knowledge of advance level of accounting for professional

B. Com. Semester Vth (CBCS Pattern)

BC.5.2 Management Accounting – I

Course Outcomes: Students can take managerial decisions regarding finance of the business.

B. Com. Semester Vth (CBCS Pattern)

BC.5.3 Auditing-I

Course Outcomes Regarding minute study to find out the fraud and errors in accounting

B. Com. Semester Vth (CBCS Pattern)

BC.5.4A- Income Tax Law & Practices

Course Outcomes: To get oneself acquaint with the direct taxes and individual income.

B.Com. Semester Vth (CBCS Pattern)

BC.5.4B- Human Resource Management

Programme outcomes: B.Sc (Bachelor of Science)

Course Outcomes: Regarding the major living aspect of business i.e. human resources, helps to know the recruitment and other basic needs.



Programme outcomes: B Com (Bachelor of Commerce)

Our college is affiliated to Swami Ramanand Teerth marathwada University, Nanded. This college offers B Com under graduate level. The university has not designed the programme outcomes in its curriculum. However the college has designed, based on the subjects offered, the following programme outcomes of the B Com programme.

1. B.Com. graduates can pursue Post Graduate Studies like M.Com., MBA, MCA, ICWA, ISCI, etc.
2. B. Com students can choose Career Options like , Chartered Accountancy, Banking Services, Insurance Sectors, Marketing, Company Secretaryship, Stock Exchange Services, Tax Consultancy, Management & Planning, Entrepreneurship, Law etc.
3. They are eligible to appear for any competitive exams conducted by Union Public Service Commission (UPSC), Maharashtra Public Service Commission (MPSC), Indian Railway Board, etc for entering into the government services.
4. The B.Com. graduate students can pursue B.Ed. course and opt teaching career in the schools.
5. After completing three years for Bachelors in Commerce (B.Com) program, students would gain a thorough grounding in the fundamentals of Commerce and Finance.
6. The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business.
7. The all-inclusive outlook of the course offer a number of value based and job oriented courses ensures that students are trained into up-to-date.

B.Com I Year (Ist Semester)

Fundamental of Financial Accounting

Paper No. BC 1.1

Course Outcome :

Student Can Understand the :

- i) Accounting Knowledge
- ii) Application of Accounting in Business

B.Com. I Year (Ist Semester)

Paper No. BC 1.2

Business Statistics

Course Outcome:

Student can understand the basic concept of statistics and its application in business and data



B .Sc. (Bachelor of Science)

Our college is affiliated to Swami Ramanand Teerth marathwada University, Nanded. We offer Chemistry, Botany and Zoology under this discipline. The college has applied to state government to rejuvenate the subjects like physics, mathematics and microbiology. The university has not designed the programme outcomes in its curriculum. However, the college has designed, based on the subjects offered, the following programme outcomes of the B SC programme.

1. The programme will develop the scientific temperate among the students.
2. It will develop interest for science among the students.
3. The students will be able to understand the basic concepts of the subject offered.
4. The students will be sensitive to the environmental issues.
5. New avenues of research and employment will be open to the students.
6. Students can do Post Graduate Studies in their respective subjects studied in 'Under Graduate' level.
7. The B.Sc. graduate students can pursue B.Ed. course and opt teaching career in the schools.

Programme Specific Outcomes

1. Chemistry:-

Course Outcomes

B. Sc. First Year (Semester-I)

Course No. :- CCC I (Section A)

Name of the Course :- Theory Paper-I Organic + Inorganic Chemistry (P-I)

Course Outcomes:

After completion of syllabus students will be able to understand following outcomes.

1. Student should learn basic concept of organic chemistry, Nomenclature.
2. Student get well acquainted with functional group in organic chemistry.
3. To understand the basic concepts and differences aliphatic hydrocarbons.
4. To know about term cycloalkane, cycloalkene and diene.
5. Learn and practice about organic compounds with their names.
6. Students learn some exceptional electronic configuration, trends and Periodicity in the following properties like atomic size, ionization energy, electron affinity & electronegativity.
7. To understand the inert gases forms compounds, different fluoride compounds of



Xenon

B. Sc. First Year (Semester-I)

Course No. :- CCC I (Section A)

Name of the Course :- Theory Paper-II Physical + Inorganic Chemistry (P-II)

Course Outcomes: After completion of syllabus students will be able to understand following outcomes.

1. Learning and understanding rules of logarithm, Rules of drawing graph, Derivatives, Integration, different mathematical concept and SI units, and their use in solving numerical.
2. Learning surface phenomena at heterogeneous surfaces.
3. Student will learn the basic knowledge of gas phase, Kinetic molecular theory, critical phenomenon, liquefaction and molecular velocities.
4. To impart knowledge about solid phase, crystallography and some crystal structure.
5. General characteristics of s-block elements, oxides, hydroxide, carbonate & its complexes
6. Study the oxidation and reduction by different methods

B.Sc. Chemistry First Year (Semester-II)

Course No. :- CCC II (Section A)

Name of the Course :- Theory Paper-III Organic + Inorganic Chemistry (P-III)

Outcomes: After completion of syllabus students will be able to understand following outcomes.

1. Student should learn the concept of aromatic hydrocarbons, Aromaticity and Anti aromaticity.
2. Student should understand the phenols and synthesis of phenols
3. Student knows about the haloalkene and haloarenes compounds.
4. To know the concepts of carboxylic acids and their derivatives.
5. To know about the types of alcohols and reaction of epoxide.
6. To study the different properties of P- block elements.
7. To know the acids & Bases by different concepts

B. Sc. First Year (Semester-II)

Course No. :- CCC III (Section A)

Name of the Course :- Theory Paper-IV Physical + Inorganic Chemistry (P-IV)



Outcomes: After completion of syllabus students will be able to understand following outcomes.

1. To impart knowledge of atomic structure, different theories of atomic structure, rules of electronic configuration and quantum numbers.
2. Learning of properties of liquid phase as surface tension, Viscosity and parachor.
3. Student will learn the basic knowledge of colloidal state, types, preparation, properties and applications of colloidal state.
4. Learning and understanding of catalysis, types of catalysis and characteristics of catalyzed reactions.
5. To understanding the chemical bond and its different types of bonds.
6. Learning the Concept of hybridization and study of VSEPR & Molecular Orbital theory

B. Sc. Second Year:

Course No. :- CCC III (Section A)

Name of the Course :- Theory Paper-VI Organic + Inorganic Chemistry (P-VI)

Outcomes:

- ☐ Learn the mechanism of name reactions.
- ☐ Know the Synthesis, and Reactions of Aromatic Carboxylic and Sulphonic acids.
- ☐ Know the Synthesis, and Reactions of Organometallic compounds.
- ☐ Learn the synthesis, mechanism, applications of active methylene compounds.
- ☐ Gathering basic knowledge of Oils, Fats, Soaps and Detergents.
- ☐ Understand the basic principle and application of Qualitative Analysis.
- ☐ Know the Classification, Properties of Non- aqueous solvents.

Course No. :- CCC III (Section A)

Name of the Course :- Theory Paper-VII Physical + Inorganic Chemistry (P-VII)

Outcomes:

After completion of these courses students should be able to,

- ☐ Write an expression of Davisson-Germer experiment.
- ☐ Derive Schrodinger wave equation.
- ☐ Understand De-Broglie's hypothesis and uncertainty principle.
- ☐ Solve the numerical problems based on De-Broglie.
- ☐ Understand concept of entropy.
- ☐ Understand statements of first, second and third law of thermodynamics.



- ☐ Know the meaning of phase, component and degree of freedom.
- ☐ Know the nuclear structure & different energy of nuclear.
- ☐ Understand the different steps & procedure in the gravimetric separation method.

Course No. :- CCC III (Section A)

Name of the Course :- Theory Paper-VIII Organic + Inorganic Chemistry (P-VIII)

Outcomes:

- ☐ Learn the stereoisomerism of Chiral compounds.
- ☐ Know the Classification, and Reactions of carbohydrates.
- ☐ Know the Synthesis, and Reactions of Nitrogen Compounds.
- ☐ Gathering applications of Reagents in Organic Synthesis.
- ☐ Understand the Characteristics of d-Block Elements.
- ☐ Know the Characteristics of d-Block Elements.

Course No. :- CCC III (Section A)

Name of the Course :- Theory Paper-IX Physical + Inorganic Chemistry (P-IX)

Outcomes:

After completion of these courses students should be able to,

- ☐ Know the rate constant and factors affecting rate of reactions.
- ☐ Write an expression for rate constant (K) for first order, second order reaction.
- ☐ Know the terms cell constant, specific conductivity, equivalent conductivity and molar conductivity.
- ☐ Know the applications of Kohlrausch's law.
- ☐ Compare between thermal and photochemical reactions.
- ☐ Discuss different types of photochemical process.
- ☐ Know the preparation, properties, structure & application of different compounds.
- ☐ Discuss different inter halogen compounds by preparation, properties, structure and uses.

B. Sc. Third Year: Semester-V

Course No. :- (DSEC-V, Section A)

Name of the Course :- Theory Paper-XII Organic + Inorganic Chemistry (P-XII)

Course Outcome(s)

1. Learn the mechanism of electrophilic Substitution reaction of Heterocyclic Compounds.
2. Know the characteristics, Classification and synthesis of Drugs and Dyes.



3. Explaining theories of Colour and chemical constitution of Dyes.
4. Gathering basic knowledge of Alkaloids, Vitamins and Pesticides
5. Understand the basic principle and application of coordination complexes
6. Know the application of elements in Medicine

B. Sc. Third Year: Semester-V

Course No. :- (DSEC-V, Section B)

Name of the Course :- Theory Paper-XIII Physical + Inorganic Chemistry (P-XIII)

Course Outcome(s)

1. Understand the concepts of molecular Spectroscopy and its applications
2. Analyze Rotational, Vibrational and Raman, Spectra
3. Interpret the theoretical and experimental methods of chemical kinetics
4. Know the theory and application of Distribution law
5. Explain the Nomenclature, classification and application of Organometallic Compounds
6. Illustrate the classification and application of Metal Carbonyls

Course No. :- (SEC III, DSECP-III) DSEC Vth & VIth (Section-A)

Name of the Course :- Skill Enhancement Course- Computer Application in Chemistry

or

Applied analytical chemistry

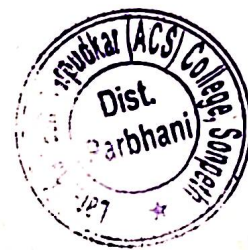
B. Sc. Third Year: Semester-VI

Course No. :- (DSEC-VI, Section A) (A1)

Name of the Course :- Theory Paper-XIV Organic + Inorganic Chemistry (P-XIV)

Course Outcome(s)

1. To learn the basic principle and terms used in UV, IR & NMR Spectroscopy
2. Acquire the fundamental knowledge of classification and Synthesis of Amino Acid and Peptides
3. Describe the types of Rearrangement
4. Postulates and limitations of VBT and CFT
5. Calculation of CFSE for Tetrahedral and Octahedral Complexes
6. Explain the types of electronic transition and selection rule
7. Apply spectroscopic techniques in analyzing the structure of simple organic Molecules



B. Sc. Third Year: Semester-VI

Course No. :- (DSEC-VI, Section B)

Name of the Course :- Theory Paper-XV Physical + Inorganic Chemistry (P-XV)

Course Outcome(s)

1. Basic concepts of electrochemistry and its applications
2. Understanding the Nernst heat theorem and the Thermodynamics open system
3. Know the Vant-Hoff's Reaction Osochore and numerical on it
4. Explain the types of magnetic substances and effect of temperature on it
5. Biological role of alkali and alkaline earth metal ions
6. Describe the structures and functions of Metal Cluster

Course No. :- (SEC IV, DSECP-IV) DSEC Vth & VIth (Section-B)

**Name of the Course :- Skill Enhancement Course- Spectroscopic Techniques and
Cosmetic Preparation**

or

Basic analytical chemistry

1. Be able to determine the structure by using Spectra
2. To train the students for the preparation of various cosmetics



B. Sc. First Year (Semester – I)

Subject:- Physics

CCP I - (Section A) P-I Core Course: Mechanics and Properties of Matter

Learning outcomes:

1. Students will understand to the world of mechanics and properties of the matter that exists in different phases i.e., solid, liquid and gas.
2. Students will understand Laws of motion and its applications to various systems studied in this paper is of fundamental nature and enable the students to handle different types of problems and is the pre-requisite for several other advanced courses in physics and chemistry.
3. The pre-requisite for this course is knowledge of calculus, wave theory and modern physics. This course is the core course and every student pursuing B Sc with physics as one of the optional is required to study this course.

CCP I - (Section B) P-II Core Course: Mathematical Methods in Physics

Learning outcomes:

1. Course will develop knowledge in mathematical physics and its applications among the students.
2. Among students course will develop expertise in mathematical methods required in the study of Physics, to develop critical thinking and problem solving skill.
3. After completion of this course students will be able to apply the concept of vectors and complex variables to various physical quantities.
4. This course will also enable the students to solve the problems related to partial differentiation. Fourier analysis unit will enable the students to analyze the periodic functions.

CCP II - (Section A) P-III Core Course: Heat and Thermodynamics

Learning outcomes:

1. Students will understand to the world of heat and thermodynamics and the behavior of the physical systems at different thermo dynamical conditions.
2. After completing this course students will understand the difference in the behavior of the ideal and real gases, transport phenomenon in gases. Students will also understand the working of various heat engines and the ways to increase their working efficiency.

CCP II - (Section B) P-IV Core Course: Electricity and Magnetism

Learning outcomes:

1. The students will to the concepts of static and dynamical electrical magnetic fields, the sources for generating such fields, polarization and induction effects.
2. Students will understand the basic difference between the DC and AC circuits and their functioning.
3. This course is of most applied nature and will enable the students to understand the role of electricity in everyday life, relate electrical conduction plate using Ohm's law
4. Students will also enable to understand the working principles of various electrical components and gadgets.



B. Sc. Second Year.
Subject: - Physics
CCP III - (Section A) P-VI Core Paper: Waves and Oscillations

Learning outcomes:

1. Students will understand to the concepts of mechanical waves, their properties, propagation and reflection properties, formation of standing waves, their applications in resonance tubes, energy distribution in the standing waves, free and forced vibrations, acoustics and acoustical designs.
2. Students will understand to the concepts of ultrasonic waves and their applications.
3. This course is the pre-requisite for several advanced courses in physics and chemistry and is necessary for understanding the behavior of the mater when mechanical waves passes through them.
4. Every student pursuing B Sc with physics as one of the optional is required to study this course because students will have pre-requisite for this course is the knowledge of elementary mathematics and calculus, wave theory, etc.

CCP III - (Section B) P-VII Core Paper: Statistical Physics, Electromagnetic and Theory of Relativity

Learning outcomes:

1. Students will be introduced to the concepts of macroscopic world, statistical approaches for understanding properties of the macroscopic bodies, ensembles, their classification on the basic of macroscopic and microscopic basis, their applications to photonic and electronic gases, electromagnetism, Maxwell's equations and their applications in the electromagnetic waves, energy carried by the EM waves and theory of relativity.
2. This course is the prerequisite for several advanced courses in physics, chemistry, life sciences and the modern communication systems. Pre-requisite for this course is the knowledge of elementary mathematics and calculus. This forms the core course of the program's and every student pursuing B Sc with physics as one of the optional is required to study this course.

CCPS I - (Section A) SEC-I Skill Enhancement Course I
A. Computational Physics

Learning outcomes:

1. This is a skill based course and is aimed to impart skills related to the use of computer and allied software and encourage them to employ that software as a part of the Physics Learning.
2. This course introduces the students to perform their own algorithms and flow chart, write computer programs to solve mathematical expressions using computers, make decisions, etc.
3. As this is a skill based course therefore it is expected that students will spend nearly half of the time in laboratory, hands-on training.



**B.Sc. F. Y. Semester-I
(CBCS PATTERN)
CCM-1, Section-A**

Paper I: Calculus-I (Differential Calculus)

Outcomes: After successful completion of the course student will be able to

1. Understanding concept of Limit, Continuity of Single and two variable Functions.
2. Find the Higher order derivatives of Product of Functions
3. Expand functions in terms of infinite series.
4. Find Equation of Tangent, Normal and Length of Tangent, Normal, Sub-tangent, Sub-normal.
5. Understanding of Mean Value Theorem concepts.
6. Understand the concept of Partial differentiation.
7. Use the results to solve problems.
8. Differentiate difference between derivative of single variable and two variables.

CCM-1 (Section B)

Paper II: Algebra and Trigonometry

Outcomes: After successful completion of the course student will be able to

1. Add, Subtract and Multiply two Matrices.
2. Recognize the different types of Matrices.
3. Find the Inverse of invertible Matrices.
4. Determine the Rank of a Matrix.
5. Transform matrix to Row Echelon form
6. Solve the System of Linear Equations.
7. Find the Characteristic Roots and Characteristic Vectors of a Square Matrix.
8. Check that every square matrix satisfies its own Characteristic Polynomial.

CCM-2, Section-A

Paper III: Calculus-II (Integral Calculus)

Outcomes: After successful completion of the course student will be able to

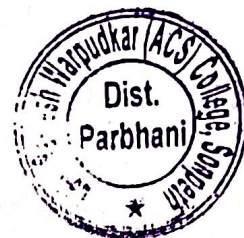
1. Apply method of integration to find the integral of function.
2. Solve examples of definite integrals using Properties definite integrals.
3. Find the area and volume of given shape.
4. Understanding concept of Gamma and Beta Functions.
5. Solve problems on Multiple Integrals.

CCM-2, Section-B

Paper IV: (Geometry)

Outcomes: After successful completion of the course student will be able to

1. Understanding concepts on Three Dimensional Geometry.
2. Find equations of Right lines, Planes, Spheres, Cones and Cylinders.
3. Find the Direction cosines of any line under the different given conditions.
4. Understand the intersection of any two or three, three dimensional geometrical Figures.
5. Transform the equation of a plane to the normal form.
6. Transform equation of line from the unsymmetrical to the symmetrical form.
7. Find the length of perpendicular from a point to a plane.
8. Find the angle of intersection of two spheres.
9. Understanding concepts of plane of contact.



CCMP-1, Based on CCM-1 and 2, Section-A
(Annual pattern)
Paper V: (PRACTICAL PAPER)

Outcomes: After successful completion of the course student will be able to

1. Verify associativity of matrix addition, left distributive law and right distributive law of matrices.
2. Find determinant, Eigen values, Eigen vectors, inverse, powers and characteristics polynomial of a square matrix.
3. To draw the graph of different functions with the help of MATLAB software and related Freeware.

CCM-3, Section-A
Paper VI: Real Analysis-I

Outcomes: After successful completion of the course student will be able to

1. Understanding the basic concept of sets and their properties.
2. Understanding the concept of a neighborhood of a point, interior points of a set, open set.
3. Understanding concept of limit points of a set, closed set, closure of a set, dense set.
4. Understanding the basic concept of sequences, subsequences, bounds of sequences, limit point of sequences, general principle of convergence, different types of sequences.
5. Understanding the concept of infinite series, different types of series, the general principle of convergence
6. Use the results to solve some problems.
7. Understanding the difference between different types of sequences, series, and comparison tests.

CCM-3 Section B
Paper VII: Group Theory

Outcomes: After successful completion of the course student will be able to

1. Understand the concepts on an equivalence relation.
2. Find the examples of equivalence relation.
3. Check whether the given set, is a group for the given operation or not.
4. Understand the general properties of groups.
5. Solve problems on groups.
6. Understand the concepts of the cyclic group.
7. Use Lagrange's theorem to solve the problems in number theory.
8. Form a quotient group.
9. Find the kernel of a group homomorphism.

CCM-3, Section-C
Paper VIII: Ordinary Differential Equations

Outcomes: After successful completion of the course student will be able to

1. Understanding concept of solution of differential equations, order and degree.
2. Transform the equations into variable separable form.
3. Transform first-order non-homogeneous equation in x and y to homogeneous equation in x and y and solve it.
4. Find the equations that can be resolved into components equation and solve it.
5. Solve Clairaut's equation.
6. Find the solutions when the auxiliary equations are equal, different, repeated, and imaginary roots.
7. Find the solution of the exact differential equation, rules of finding the integrating factor.
8. Transform non-linear equation to linear equation and solve it.



9. Find integral corresponding to a term of the form e^{ax} ; x^m ; $\sin ax$ or $\cos ax$, $e^{ax}V$; xV ; x^2V in the second member.
10. Find the solution of linear equation with variable coefficients.
11. Transform the equations to the homogeneous linear form.
12. Transform the homogeneous linear equation with constant coefficient by changing the independent variable x to z by putting $x = e^z$ or $Z = \log x$

CCM-4 Section-A
Paper IX: Real Analysis-II

Outcomes: After successful completion of the course student will be able to

1. Understand the meaning of interval, subinterval, partitions, and their refinement.
2. Understanding the basic concept of upper integral and lower integral and Riemann integral.
3. Understanding difference between upper sum, lower sum and Riemann sum
4. Acquire the idea about Riemann Integrability and Riemann Integration
5. Understand various theorems associated with Riemann Integration
6. Develop knowledge about Riemann Integration and applies to problems
7. Understand the meaning of improper integral.
8. Determine convergence of improper integrals with discontinuities in their domain or infinite limits of integration.
9. Develop skill in checking the convergence of improper integral using various tests of convergence
10. Understanding distinguishes between convergence and absolute convergence of improper integral.
11. Use comparison test with a corresponding improper integral with other improper integral to decide whether improper integral converge or diverge
12. Use the results to solve some problems.

CCM-4, Section-B
Paper X: Ring Theory

Outcomes: After successful completion of the course student will be able to

1. Understand given algebraic structure is a Ring or not.
2. Construct the examples of ring with known examples of ring.
3. Differentiate between zero-divisors and non-zero-divisors in a given ring.
4. Check whether given two rings are isomorphic or not.
5. Check whether the given ideal of a ring is a principal ideal or not.
6. Understand the concepts on principal ideal ring
7. Understand concepts on Euclidean rings.

CCM-4, Section-C
Paper XI: Partial Differential Equations

Outcomes: After successful completion of the course student will be able to

1. Classification of PDE.
2. Solve linear as well as non-linear PDE of first and second order.
3. Apply PDE techniques to predict the behavior of certain phenomena.
4. Solve real problems by identifying them approximately from the perspective of PDE.
5. Mathematical formation of real problem precisely.
6. Solve problem using boundary conditions.



B. Sc. Botany

Learning Objectives :

The Objective of this program are :

1. To provide an updated education to the students at large in order to know the importance and scope of the discipline and to provide mobility to students from one university or state to other.
2. To update curriculum by introducing recent advances in the subject and enable the students to face NET, SET, UPSC and other competitive examinations successfully.
3. To impart knowledge of plant science as the basic objective of Education.
4. To develop a scientific attitude to make students open minded, critical and curious.
5. To develop an ability to work on their own and to make them fit for the society.
6. To expose themselves to the diversity amongst life forms.
7. To develop skill in practical work, experiments, equipments and laboratory use along with collection and interpretation of plant materials and data.
8. To make aware of natural resources and environment and the importance of conserving the same.
9. To develop ability for the application of the acquired knowledge in the fields of life so as to make our country self reliant and self sufficient.

B.Sc. F.Y. Semester – I CCB-I (A)

Theory Paper –I

Viruses ,Bacteria, Algae, Fungi, Lichens and Mycorrhiza

Course outcomes:

1. Understand the morphology, structure and importance of the various organisms
2. Differentiate between various groups of Algae, Fungi, Bacteria, Viruses, and Lichens & Mycorrhiza
3. Learn the life cycles of individuals belonging to Algae, Fungi, Bacteria, Viruses, Lichens & Mycorrhiza

B.Sc. F.Y. Semester – I CCB-I (B)

Theory Paper –II

Plant Ecology ,Phytogeography and Environmental Biology



Course outcomes:

1. Able to understand the ecological principles , interactions taking place in the Ecosystems and the flow of energy
2. Learn about the concept of phytogeography and its relations with other disciplines

Semester – II CCB-II (A)

Theory Paper –III

Bryophytes, Pteridophytes ,Gymnosperms & Paleobotany

Course outcomes:

1. Learn the life cycles of individuals belonging to Bryophytes, Pteridophytes and Gymnosperms
2. Learn about process of fossil formation and fossils plants

B.Sc. F.Y. Semester – II CCB-II (B)

Theory Paper –IV

Taxonomy of Angiosperms

Course Outcomes:

1. Proficiency with the basic terminology of plant morphology
2. Able to identify the major families of plants and their economic importance
3. Understand the methods of collecting and preserving plants

B.Sc. S.Y. Botany

Program Outcomes:

The Outcomes of this program are:

PO1: This program will train and orient the students in the field of diversity of different life forms, Plant Anatomy, Plant Embryology, Plant Physiology, Plant Metabolism and Biochemistry.

PO2: This program will help the students for their career development.



PO3: This program will provide updated curriculum with recent advances in the subject and enable the students to face NET, SET, UPSC and other competitive examinations successfully.

PO4: This program shall train and orient the students for laboratory skills and serve as human resource for the educational institutes, industries and other organizations.

PO5: The programme also has a strong interdisciplinary component. Emphasis is given on the experimental learning through hands-on laboratory exercises, field trips and assignments.

PO6: Students will be able to understand and explain different specializations of Botany such as anatomy, Embryology, developmental biology, physiology, biochemistry etc. Students will be able to demonstrate the experimental techniques and methods in plant sciences and have innovative research ideas.

PO7: The programme will enlighten the current thrust areas of the subject and provide substantial exposure and skills in plant biology.

PO8: Skill Enhancement Courses being offered during this program will provide job opportunities and additional specific skills to the students for self-employability through the development of their own enterprises.

B.Sc. S.Y. Semester –III

CCB-III (A)

Theory Paper –VI : Plant Anatomy (Compulsory)

Course Outcomes:

1. The students will be able to understand the meristem (RAM & SAM) different simple and complex tissues and secondary growth in root and stem.
2. Students will acquire knowledge of anatomy of root, stem and leaf in dicot and monocot plants.



Semester –III CCB-III (B)

Theory Paper –VII : Plant Physiology & Biochemistry (Compulsory)

Course Outcomes:

1. Students will gain the knowledge of water and nutrient uptake, movement in plants, role of mineral elements, translocation of sugars, Role of various plant growth regulators, phytochrome in plants.
2. Students shall learn different types of biomolecules and secondary metabolites
3. Students will learn the flowering physiology, vernalization and seed dormancy in plants.

B.Sc. S.Y. Semester –IV

CCB-IV (A) Theory Paper –VIII : Plant Embryology (Compulsory)

Learning Outcomes:

1. This course will be able to demonstrate foundational knowledge in embryology of plants.
2. Students will be able to understand the development of pollen, Ovule, and fertilization and palynological information.

B.Sc. S.Y. Semester –IV

CCB-IV (B) Theory Paper –VIII : Plant Metabolism & Biotechnology (Compulsory)

Learning Outcomes:

1. Students will be able to understand the various metabolic processes such as photosynthesis, respiration, Nitrogen metabolism etc. which are important for life.
2. Students shall be become familiar with the gene cloning and its transfer in plants
3. Students shall learn different databases and their applications

PROGRAM OUTCOMES (POs):

PO1: This program will train and orient the students in the field of Cell Biology, Molecular Biology, Plant Breeding, Plant Pathology, Systematic Botany, Herbal Technology and Other fields of Botany.

PO2: This will provide updated curriculum with recent advances in the subject and enable the students to face NET, SET, UPSC and other competitive examinations successfully.



PO3: Students shall be able to identify different plant species, plant diseases and shall be able to do their management.

PO4: This program shall train and orient the students so as to develop human resource for the educational institutes, industries and other organizations.

PO5: This will also develop specific skills amongst students for self employability through the development of their own enterprises.

PO6: This shall develop ability in the students for the application of the acquired knowledge in the fields of life so as to make our country self-reliant and self-sufficient.

B.Sc. T.Y. Botany

Semester – V DSEB-I

Theory Paper –XII : Cell & Molecular Biology (Compulsory)

Learning Outcomes:

1. The students will be able to understand ultra structure of a cell, cell wall, cell membrane, cell organelles and chromosomes, cell cycle and cell division.
2. The students will be able to understand in detail the structure of DNA and RNA, protein synthesis, gene structure, gene mutation and related diseases.
3. Students will acquire knowledge of cell and molecular biology

B.Sc. T.Y. Botany Semester – V DSEB-I

Theory Paper –XIII : Plant Pathology (Compulsory)

Learning Outcomes:

1. The students will be able to understand fundamentals of plant pathology.
2. The students will be able to understand in detail the process of plant disease development.
3. Students will acquire knowledge of different plant diseases in different plants.

B.Sc. T.Y. Botany Semester – VI DSEB-I

Theory Paper –XIII : Genetics & Plant Breeding (Compulsory)

Learning Outcomes: Students shall

1. Understand Mendelian genetics, gene interaction.
2. Learn the sex determination, linkage, sex linked inheritance and genetic variations.
3. Understand various crop improvement methods in plant breeding.



B.Sc. T.Y. Botany Semester – VI DSEB-I

Theory Paper –XV : Plant Pathology-II (Compulsory)

Learning Outcomes:

1. The students will be able to understand fundamentals of aerobiology and seed pathology.
2. The students will be able to understand in detail the process of plant Defense mechanism and management.
3. Students will acquire knowledge of different plant diseases in different plants.

B.Sc. Zoology B.Sc. F. Y.

Paper: CCZ-I: Biodiversity of Invertebrates and Chordates

Section –A - Title of Paper: Paper-I : Biodiversity of Invertebrates

Course Outcome:

1. The student will be able to identify a given invertebrate upto class level.
2. Ability to understand the contribution of Invertebrates in the biodiversity index of any given habitat.
3. Ability to understand and appreciate the ecological and economic importance of invertebrates and vertebrates.
4. Ability to identify and describe external morphology and internal anatomical features of representative invertebrate species.

Paper: CCZ-I: Biodiversity of Invertebrates and Chordates

Section –B Title of Paper: Paper-II : Biodiversity of Chordates

Course Outcome:

1. The student will be able to identify and understand the Biodiversity of Chordates.
2. Ability to understand anatomical relation between different vertebrate classes.
3. The learner will be able to understand the economic importance of Chordates.

Paper: CCZ-II: Comparative Anatomy and Developmental Biology of Vertebrates

Section –A Title of Paper: Paper-III: Comparative Anatomy of Vertebrates



B.Sc. T.Y. Botany Semester – VI DSEB-I

Theory Paper –XV : Plant Pathology-II (Compulsory)

Learning Outcomes:

1. The students will be able to understand fundamentals of aerobiology and seed pathology.
2. The students will be able to understand in detail the process of plant Defense mechanism and management.
3. Students will acquire knowledge of different plant diseases in different plants.

B.Sc. Zoology B.Sc. F. Y.

Paper: CCZ-I: Biodiversity of Invertebrates and Chordates

Section –A - Title of Paper: Paper-I : Biodiversity of Invertebrates

Course Outcome:

1. The student will be able to identify a given invertebrate upto class level.
2. Ability to understand the contribution of Invertebrates in the biodiversity index of any given habitat.
3. Ability to understand and appreciate the ecological and economic importance of invertebrates and vertebrates.
4. Ability to identify and describe external morphology and internal anatomical features of representative invertebrate species.

Paper: CCZ-I: Biodiversity of Invertebrates and Chordates

Section –B Title of Paper: Paper-II : Biodiversity of Chordates

Course Outcome:

1. The student will be able to identify and understand the Biodiversity of Chordates.
2. Ability to understand anatomical relation between different vertebrate classes.
3. The learner will be able to understand the economic importance of Chordates.

Paper: CCZ-II: Comparative Anatomy and Developmental Biology of Vertebrates

Section –A Title of Paper: Paper-III: Comparative Anatomy of Vertebrates



Course Outcome:

1. The student will be able to identify and understand comparative anatomical structure of vertebrate organ systems.
2. The learner will be able to understand the evolution of various organs and systems in the vertebrate body according to its environment.
3. Understand the plasticity of organ systems to adapt to the environment and acquire different novel forms

Paper: CCZ-II: Comparative Anatomy and Developmental Biology of Vertebrates

Section –B Title of Paper: Paper-IV :Developmental Biology of Vertebrates

Course Outcome :

1. The student will be able to explain the basics processes of vertebrate embryonic development.
2. Ability to describe the various steps in vertebrate development.
3. Identify and explain about the different embryonic structures.
4. Describe the functions of different extra-embryonic structures.
5. Understanding of the Assisted Reproductive Technologies.

DSEZ-I; Section-A:

PAPER-XII- ECOLOGY AND ZOOGEOGRAPHY:

- _ To understand and appreciate the interactions of organisms with their environments and the consequences of these interactions for population, community, and ecosystem dynamics.
- _ To be aware of the current environmental issues with an understanding of the basic ecological concepts involved.
- _ To study the local and geographical distribution and abundance of organisms (habitat niche, community, bio-geography).
- _ To understand the inter-relationship between individuals in population and communities (population ecology).
- _ To study the structural adaptations and functional adjustment of organisms to their physical environment.



- _ To study the conservation and management of natural resources and pollution (applied ecology).

DSEZ-I; Section-B: PAPER-XIII (C)- ENTOMOLOGY- I

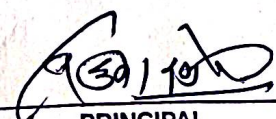
- _ To define general entomology and classifying insects according to their economic importance.
- _ To acquaint students with the morphology and anatomy of selected insect species.
- _ To introduce students to insect biology.
- _ To impart knowledge of insect ecology covering factors like effect of light, temperature, humidity.

DSEZ-II; Section-A: PAPER-XIV- ETHOLOGY, BIOMETRY AND BIOINFORMATICS

- _ To study the behaviour of organism under natural conditions (Ethology).
- _ To understand the concepts of Biometry.
- _ To get acquainted with and apply the fundamentals of applied statistical methodology.
- _ To give students an introduction to the basic practical techniques of bioinformatics.
- _ To emphasize the application of bioinformatics and biological databases for problem solving in real-life & research.
- _ To familiarize student with the use of a wide variety of internet applications, biological database and to enable them to apply these methods under various situations.

DSEZ-II; Section-B: PAPER-XV(C)- ENTOMOLOGY- II:

- _ To introduce students to the ecology and biology of insects of medical and agricultural importance.
- _ To provide students with opportunities to understand insect pest management techniques such as cultural, physical, Biological, chemical, IPM etc.
- _ To provide students an adequate knowledge of various types of insecticides and problems associated with their use.
- _ To equip students knowledge of practical applications of insecticides and maintenance of pesticide equipment.



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