



2.6.1. Programme Out comes (Pos) and course Out comes (Cos) for all Programmes offered by the Institution are stated and displayed on website.



K. Venkatesh Reddy
Principal
T.T.W.R. DEGREE COLLEGE (BOYS)
Maripeda, Mahabubabad- 506315

DEPARTMENT OF ENGLISH

CO' S & PO' S

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DEPARTMENT OF ENGLISH
PROGRAMME OUTCOMES (POs)

2019-20 onwards (new CBCS)

The 20 -credit, six-semester course seeks to enhance the English language skills of undergraduate student by

PO1: Acquire creative, interpretative and critical thinking

PO2: Skills to communicate confidently and effectively

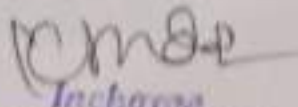
PO3: Obtain persuasive and creative social media writing skills


PO4: Develop analytical and evaluative skills

PO5: Learnt to identify and understand social contexts and ethical frameworks in the texts

PO6: Eligibility to take up jobs such as content writing, journalism and such other jobs with proficiency in English

PO7: Encourage graduates to become good human beings and responsible citizens for the overall welfare of the society.


Incharge
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TTWR Degree College (B)
Marpeda, Mahabubabad-500 318.


Principal
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Marpeda, Mahabubabad-500 318.

COURSE OUTCOMES(CO)
2019-20 onwards (new CBCS)

SEMESTER -I

Name of the Course: GENERAL ENGLISH PAPER-I

Name of the textbook: English for Advancement (Orient Black Swan)

No of Credits: 04

CO1: Acquire LSRW (Listening, Speaking, Reading, Writing) skills

CO2: Equip the students to communicate confidently and effectively

CO3: Prepare for various interviews and professional contexts

CO4: Build persuasive and creative social media writing skills

SEMESTER -II

Name of the Course: GENERAL ENGLISH PAPER-II

Name of the textbook: English for Advancement (Orient Black Swan)

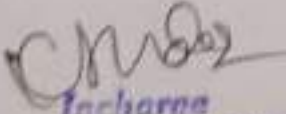
No of Credits: 04

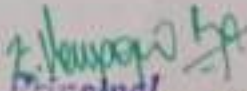
CO1: Develop analytical and evaluative skills

CO2: Train students to identify and understand regional and global contexts and ethical frameworks in texts and narratives

CO3: Enable students for self-expression

CO4: Enhance the students' creative, interpretative and critical thinking


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SEMESTER - III

Name of the Course: GENERAL ENGLISH PAPER-III

Name of the textbook: English for Excellence (Oman Book House)

No. of Credits: 03

- CO1: Equipped themselves with interpersonal communication skills
- CO2: Learn to identify and understand social contexts and ethical frameworks in the texts
- CO3: Obtained persuasive and creative social media writing skills
- CO4: Ability to articulate their views with clarity and confidence
- CO5: Enable students for self-expression

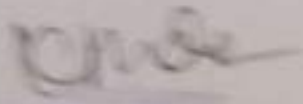
SEMESTER - IV

Name of the Course: GENERAL ENGLISH PAPER-IV

Name of the textbook: English for Excellence (Oman Book House)

No. of Credits: 03

- CO1: An awareness of social, cultural, religious and ethnic diversities
- CO2: Facilitated employability in emerging sectors such as - content writer, interpreter, translators, transcribers
- CO3: Build up a repository of active vocabulary and apply it to everyday situations
- CO4: Improve writing skills independently for future needs


HEAD OF DEPARTMENT
DEPT. OF ENGLISH
Tatyasaheb Kore College (B)
Karnataka, Maharashtra-582725


HEAD OF INSTITUTION
Tatyasaheb Kore College (B)
Karnataka, Maharashtra-582725

SEMESTER -V

Name of the Course: **GENERAL ENGLISH PAPER-V**

Name of the textbook: **English for Careers (Orient Black Swan)**

No of Credits: **03**

CO1 Use grammar effectively in writing and speaking.

CO2 Demonstrate the use of good vocabulary

CO3 Develop writing skills.

CO4 Acquire ability to use Soft Skills in professional and daily life..

CO5 Use reading skills effectively and comprehend different texts.

SEMESTER -VI

Name of the Course: **GENERAL ENGLISH PAPER-VI**

Name of the textbook: **English for Careers (Orient Black Swan)**

No of Credits: **03**

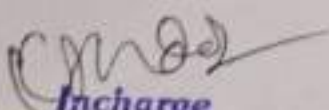
CO1 Understand texts from various linguistic, critical and creative concepts and categories.

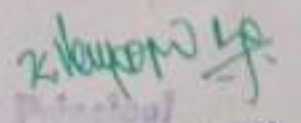
CO2 Situate one's own reading in terms of society, religion, caste, region, gender and politics.

CO3 Use digital resources for gathering information

CO4 Analyze what is being read and use good writing strategies

CO5: Acquired language skills for competitive examinations UPSC/IBPS/SSC/RAILWAYS/TOEFL/IELTS and others.


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DEPARTMENT OF TELUGU

CO' S & PO' S

DEPARTMENT OF TELUGU
Programme outcomes (POs)
Programme Name: B.Sc, B.Com & B.A.
Programme Outcomes

The 20-Credit, Six-semester course seeks to enhance the Telugu language skills of undergraduate student by

P01: Through Telugu Language Learning, the students are Enable to developed moral and ethical values. They also get language knowledge and emotional control by reading moral stories in Telugu Language

P02: Acquire creative, interpretative and critical thinking

P03: Skills to communicate confidently and effectively

P04: Obtain persuasive and creative social media writing skills

P05: Develop analytical and evaluative skills

P06: Learnt to identify and understand social contexts and ethical frameworks in the texts

P07: Eligibility to take up jobs such as content writing, journalism and such other jobs with proficiency in Telugu

P08: Encourage graduates to become good human beings and responsible citizens for the overall welfare of the society.

COURSE OUTCOMES (COs)
B.A, B.COM-CA & B.Sc. - (BZC,MPC&MPCs)

సెమిస్టర్-1

కోర్సు పేరు: తెలుగు(ద్వితీయ భాష)- 1
పాఠ్య పుస్తకం పేరు: సాహితీ మంజీర
క్రెడిట్ సంఖ్య: 04

- CO1: ప్రాచీన కవిత్వం ద్వారా నైతిక విలువలు, జీవిత సత్యాలను తెలుసుకుంటారు
- CO2: సామాజిక, సాంస్కృతిక విలువలు అలవదుచుకుని నిత్య జీవనానికి అన్వయిస్తారు.
- CO3: చారిత్రక సత్యాలను గ్రహిస్తారు. పరిశీలన శక్తి విమర్శన దృష్టి మెరుగుపరుతాయి
- CO4: భాషా నైపుణ్యాలను మరియు వ్యాకరణ పరిజ్ఞానాన్ని పొందుతారు
- CO5: రాయడం మరియు మాట్లాడటంలో వ్యాకరణాన్ని సమర్థవంతంగా ఉపయోగిస్తూ, మంచి పదజాల సృష్టి, వ్రాత నైపుణ్యాలు అభివృద్ధి చెందుతాయి.

సెమిస్టర్-II

కోర్సు పేరు: తెలుగు(ద్వితీయ భాష) - II
పాఠ్య పుస్తకం పేరు: సాహితీ మంజీర
క్రెడిట్ సంఖ్య: 04

- CO1: పురాణ సాహిత్యం ఆధారంగా భక్తి లౌకిక తత్వం, నైతికతలను గ్రహిస్తారు.
- CO2: విశాల దృక్పథం, తార్కికత, విశ్లేషణ సామర్థ్యం పెంపొందించుకుంటారు.
- CO3: ఆధునిక కవిత్వం ఆధారంగా మానవతా వాదం, సాంఘిక జీవన విధానాన్ని అలవర్చుకుంటారు. తదనుగుణంగా వ్యక్తిగత, కుటుంబ, సామాజిక విలువలు కల్గిన జీవనవిధానాన్ని పాటిస్తారు
- CO4: నవన విభాగం ఆధారంగా చారిత్రక, సామాజిక, సాంస్కృతిక విషయాలను గ్రహిస్తారు
- CO5: చందస్సు ఆధారంగా పద్య విశ్లేషణం గ్రహిస్తారు. పద్య రచన విధానాన్ని అనుసరిస్తారు తద్వారా భావి కవిగా, రచయితగా తయారవుతారు

సెమిస్టర్-III

కోర్సు పేరు: తెలుగు (ద్వితీయ భాష) - III

పాఠ్యపుస్తకం పేరు: సాహితీ కిన్నెర

క్రెడిట్ల సంఖ్య: 03

- C01: వ్యక్తిగత విలువలు పొటిస్తూ, దయ, కరుణ, క్షమ గుణాన్ని కల్గి మానవతా విలువలు అనుసరిస్తారు
- C02: మాట ప్రాముఖ్యాన్ని గ్రహించి, విద్యార్థులు వారి ఆభిప్రాయాలను స్పష్టంగా మరియు విశ్వాసంతో వ్యక్తం చేసేటట్లుగా సామర్థ్యంను పెంపొందించుకుంటారు
- C03: జాతి, మత, కుల, లింగ భేదాలతో పాటు వృత్తుల మధ్య గల వైరుధ్యాలను గ్రహిస్తాడు
- C04: సామాజిక, ఆర్థిక అసమానతలను అవగతం చేసుకుని విశాల భావాలు పెంపొందించుకుంటారు
- C05: అలంకార శాస్త్ర అవగాహన కల్గి పద్య రచన ఆసక్తి పెంచుకుంటాడు. భాష పటిమను పెంపొందించుకుంటాడు

సెమిస్టర్-IV

కోర్సు పేరు: తెలుగు (ద్వితీయ భాష) - IV

పాఠ్యపుస్తకం పేరు: సాహితీ కిన్నెర

క్రెడిట్ల సంఖ్య: 03

- C01: "స్వర్ణాయ వర్ణతే విద్యా" అనే సూక్తిని అవగతం చేసుకుంటు విద్యా ప్రాధాన్యతను గుర్తిస్తారు
- C02: ఈర్ష్య అనూయ స్వభావాలను త్యజించి, అహంకార దోరణి విడనాడుతారు. మంచి మార్గాన్ని అనుకరిస్తారు.
- C03: వ్యక్తిగత విలువలు కలిగి, జీవితానికి కావాల్సిన నత్యాన్వేషణ అలవర్చుకుంటారు
- C04: చారిత్రక, సాంస్కృతిక వారసత్వ సంపదల పట్ల అవగాహన కల్గి పరిరక్షణకై పాటుపడడం
- C05: సాహిత్య అవశ్యకతను గుర్తించి, సామాజిక పరిణామ క్రమాన్ని అవగాహన చేసుకుని పర్యవేక్షణ సామాజిక స్థితిగతులను విశ్లేషణ చేయగలుగుతారు

సెమిస్టర్-V

కోర్సు పేరు: తెలుగు(ద్వితీయ భాష) - V
పాఠ్యపుస్తకం పేరు: సాహితీ దుందుభి
క్రెడిట్ల సంఖ్య: 03

- C01: తెలుగు కవితా ప్రక్రియలు పరిచయంతో విభిన్న ప్రక్రియల నుద్వయ తేడా తెలుసుకుంటారు
- C02: భావాలను, ఆలోచనలను వ్యక్తపరచడానికి, ఆసక్తి కలిగిన ప్రక్రియలో కవితా రచనకు ప్రయత్నిస్తారు
- C03: తెలుగు వ్యాసం ఆవిర్భావ వికాసాన్ని తెలుసుకుని సామాజిక బాధ్యతను గుర్తిస్తారు.
- C04: వ్యాస నిర్మాణాన్ని తెలుసుకుని వ్యాస రచనకు పూనుకుంటారు.
- C05: సాహిత్య అధ్యయనం ప్రయోజనాన్ని గ్రహించి, సామాజిక ప్రయోజనం కొరకు పాటుపడతారు
- C06: అధ్యయనం సంస్కృతి ప్రాధాన్యతను గుర్తిస్తారు.
- C07: కవులు, రచయితలుగా ఎదగాలనే ఆభిరుచిని పెంచుకోవడమే కాకుండా సాహిత్యం మరియు ఇతర కవులు, రచయితల పట్ల గౌరవాన్ని కలగిస్తుంటారు

సెమిస్టర్-VI

కోర్సు పేరు: తెలుగు(ద్వితీయ భాష)- VI
పాఠ్యపుస్తకం పేరు: సాహితీ దుందుభి
క్రెడిట్ల సంఖ్య: 03

- C01: తెలుగు సాహిత్య ప్రక్రియల పట్ల అవగాహనతో పాటు సాహిత్య జ్ఞానాన్ని, సామాజిక ప్రయోజనాన్ని అవగాహన చేసుకుంటారు
- C02: అర్చనలను మౌలికంగా తెలుసుకుని సామాజిక ప్రయోజనాన్ని గుర్తిస్తారు.
- C03: వార్త నిర్మాణ వైపునాన్ని పెంచుకుని, అర్చనలను ఉద్దేశ్యం, లక్ష్యం ప్రయోజనాలు గ్రహిస్తారు.
- C04: సమాజ క్షయస్పృహ దృష్ట్యా సాహిత్యం, అర్చనలను మార్గాల వైపు ఆభిరుచిని కల్గిస్తుంటారు
- C05: సాహిత్యసంస్కృతిక, చారిత్రక, సామాజిక కవీస జ్ఞాన సముపార్జన పొందుతారు
- C06: జాతీ పరిక్షల కోసం సాహిత్య మరియు సాహిత్యేతర జ్ఞానం మరియు భాషా వైపునాన్ని పొందుతారు.
- C07: కవులు, రచయితలుగా, తెలుగు కంటిక్ రీటర్నుగా, అనువాదకులుగా, అర్చనలను ఉపాధి మార్గంను ఎంచుకుంటారు.

డా. బి.వి. రాజు
మొదటి సంపుట

ద్వితీయ భాగం

తెలుగు

సాహితీ మాంజరీ



విశాఖపట్టణం
విశాఖాక్షర ప్రచురణ



డా. బి.వి. రాజు, రచయిత
మొదటి సంపుట

ద్వితీయ భాగం

తెలుగు

సాహితీ కిన్నెర



విశాఖపట్టణం
విశాఖాక్షర ప్రచురణ



డా. బి.వి. రాజు, రచయిత
మొదటి సంపుట

ద్వితీయ భాగం

తెలుగు

సాహితీ రుంద్రులు



విశాఖపట్టణం
విశాఖాక్షర ప్రచురణ

DEPARTMENT OF MATHS

CO' S & PO' S

Program Outcomes:

S.NO	The students who complete B.Sc course successfully will be able to:
PO-1.	Acquire theoretical as well as practical knowledge in their disciplines.
PO-2.	Understand the basis of science for coherent understanding of the academic field to pursue multi and inter disciplinary
PO-3.	plan and execute experiments or investigations, analyze and intrepret data information collected using appropriate methods.
PO-4.	Develop scientific temper and reasoning ability.
PO-5.	Think critically, follow innovations and developments in science and technology
PO-6.	Solve the problem and also think methodically, independently and draw a logical conclusion.
PO-7.	Capability of demonstrating comprehensive knowledge of mathematics understanding of one or more disciplines which form a part of an undergraduate programme of study.

Mathematics Specific Outcomes:

B.Sc. MATHEMATICS

- Acquire good knowledge and understanding to solve specific theoretical and applied problems in advanced areas of mathematics and statistics.
- Encourage the students to develop a range of generic skills helpful in employment internship and social activities.
- This program also leads to study of related areas like Computer science, Financial Mathematics, Statistics and many more.
- This program will also help students to enhance the for-government jobs in banking, incident and investment sector and data analytic job and jobs in various other public and private enterprises.
- B.sc Mathematics is awarded to the students and the basis of Knowledge understanding, skills attitudes, Values and academic achievements sought to be required by learner the end of this program.
- Student undergoing this program learn to logically question assertions, to recognize patterns and distinguish between essential and irrelevant aspects of problems.

COURSE OUTCOMES:

B.Sc. MATHEMATICS

DIFFERENTIAL AND INTEGRAL CALCULUS -I SEMESTER -I

On the successful completion of the course the student will be able to:

- Determine the maximum domain for functions of two variables and construct level curve as a tool for visualizing a function graph.
- Student learns how to find higher order derivatives using implicit differentiation.
- Student find radius of curvature of curve at any points.
- Student know how to find the length of curves.
- Expression for the volume obtained by revolving about either area.

DIFFERENTIAL Equation-II SEMESTER -II

On the successful completion of the course the student will be able to:

- Student will be able to find complete solution of a non-homogeneous differential equation as a linear combination of the complementary function and a particular solution.
- Student will be able to solve first order differential equations.
- Applies the method of undetermined coefficient to solve the non-homogeneous differential equations with constant coefficients.
- Express the basic existence theorem for higher order linear differential equations.
- Use the method of variation of parameters to find the solution of higher order linear differential equations with variable coefficient.

ANALYSIS III SEMESTER -III

On the successful completion of the course the student will be able to:

- Determine infinite sequence is bounded or not and also determine if an infinite series is convergent or divergent by using all tests.
- To find derivatives of exponential and logarithmic functions.
- Student will be able to apply limiting properties describe and prove differentiability condition for real and complex functions.
- They will be able to prove important theorems such as Rolle's and mean value theorem.
- It describes that calculation of area under a curve by using Riemann sum and explains how this value can convert to the definite integral.

ALGEBRA -IV SEMESTER -IV

On the successful completion of the course the student will be able to:

- Student understand how to use technique and theorems of Group theory analyse the structure of finite groups.
- Student should be able to use definitions and theorems to solve problems in group theory and prove new theorem.
- Students learn how to create cosets from group, sub group and also verify that a given function is homomorphism (Isomorphism).

- To write precise and accurate mathematical object in Ring theory. Know how to add and multiply polynomial over arbitrary fields and able to use this to define polynomial rings

LINEAR ALGEBRA -V SEMESTER -V

On the successful completion of the course the student will be able to:

- Analyse the solution set of system of linear equations.
- Apply properties of determinants to compute determinants of matrix.
- Construct the characteristic polynomials of a matrix and use it to identify Eigen values and their multiplicities.
- Characterise the long-term behaviour of dynamical systems using Eigen value decompositions.
- Explain concept of inner product on vector spaces.

ANALYTICAL SOLID GEOMETRY -V (A) SEMESTER -V

On the successful completion of the course the student will be able to:

- Understand relationship between different coordinate system and plot curve in Spherical cylindrical polar coordinate.
- All the students should be able to calculate the curve surface area of a cone using the formula.
- Find the parametric representations of a cylinder a cone and a sphere.
- Obtain standard forms of an ellipsoid, hyperboloid one sheet and hyperboloid of two sheets.
- Obtain tangent lines and tangent planes at a point to a central conicoid.

VECTOR CALCULUS -VI SEMESTER -VI

On the successful completion of the course the student will be able to:

- Use a line integral to compute the work done in moving an object along a curve in a vector field.
- Minimize the definition of directional derivative and gradient and illustrate geometric meaning with the aid of sketches.
- Find the parametric representation of a cylinder a cone and a sphere.
- Use the properties of curl and divergent to determine whether a vector field is conservative.
- Recognize irrotational and solenoid vector field.

NUMERICAL ANALYSIS -VI (A) SEMESTER -VI

On the successful completion of the course the student will be able to:

- Use the bi-jection method to solve examples of finding roots of a non-linear equation.
- To learn the concepts of interpolation.
- Student will be able to investigate the solution of a non-linear system of equation.
- Student will be able to research numerical solutions of differential equation of systems.
- Student will be able to perform mathematical operations on numerical analysis.

DEPARTMENT OF COMPUTER SCIENCE

CO' S & PO' S



TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE (Boys), Maripeda,
Mahabubabad.

I. Program Learning Objectives

S.No	Program	Learning Objectives of Program
1	B.Sc.(M.P.Cs.) Mathematics, Physics, Computer Science	<p>The Option of the B.Sc (M.P.Cs) degree drives the student towards core basic concepts of physical and mathematical sciences along with their interdisciplinary fields.</p> <p>Objectives of this program include:</p> <ul style="list-style-type: none">• Becoming competent in the fundamental streams of physical sciences, Mathematics and Computer science at undergraduate level.• The acquired competence can give students enough preparation to pursue higher education at Post graduate level. Students can also choose Professional courses like MCA or MBA in the state or national institutes.• With the subject of Computer Science along with Mathematics and Physics, the students could able to deal with critical thinking and problem solving applied to real world computational problems.• Core basic sciences of this Program enable the students to apply their knowledge solving the problems in a scientific way.• Students can also make cross-disciplinary research using this program through analysis and synthesis while applying knowledge in issues related to social or economic issues.• The student who pursued this program can get the ability to work both on diversified teams and work independently as an expert in a scientific or technical domain.• This program gives the student a big leap in his further education as well as career giving heterogeneous opportunities.

II. Program Outcome and Program Specific Outcomes

S.No	Program	Program Outcome	Program Specific Outcomes
1	B.Sc.(MPCs.) Mathematics, Physics, Computer Science	<p>The option of the B.Sc.(MPCs) degree drives the student towards core basic concepts of physical and mathematical sciences along with inter disciplinary fields. Objectives of this program include:</p> <ul style="list-style-type: none"> • Becoming competent in the fundamental streams of physical sciences at under graduate level. • The acquired competence can give students enough preparation to pursue higher education at Post graduate level. Students can also Choose to opt Professional courses like MCA or MBA in the state or national institutes. • With the subject of Computer Science along with Mathematics and Physics, the students could be able to deal with critical thinking and problem solving applied to real world computational problems. • Core basic sciences of this program enable the students to apply their knowledge solving the problems in a scientific way. 	<p>The Specific outcomes of this program include:</p> <ol style="list-style-type: none"> 1. Students will acquire an adequate knowledge of Mathematics, Physics, and Computer Sciences. 2. This course will provide a thorough knowledge through experimental learning to the students. 3. This program acts as a standard science stream base to pursue further higher education or to opt for career after graduation. 4. The curriculum has been equipped with syllabus to crack competitive Exams. 5. This program is the best stepping stone for a student if they wish to choose a scientific career after graduation. 6. Gain knowledge of Physics and Computer science through theory and practical approach. 7. Understand and apply principles of Physics for understanding the specific phenomenon in classical and Quantum physics. 8. Develop research oriented skills in the field of physics and computer science. 9. Make aware and handle the Sophisticated instruments /equipments

III. Course Outcomes

B.Sc.(Computer Science): Course Outcomes

S.No	Course Code	Course Title	Course Objectives and Out Comes	
Computer Science				
1	BS-106	Programming in C	C-1	Understands Computer Fundamentals. Understands C tokens, data types and operators. Understands basic Structure of C program and expressions
			C-2	Understands I/O functions, Control statements, and derived data types
			C-3	Learns the implementation of functions through C programming. Understands the concepts of Pointers and its usage
			C-4	Working with User Defined Data Types like Structures, Unions. Understands the concepts of external file handling using C programming.
2	BS-206	Programming in C++	C-1	Learns basic concepts of C++ Programming. Usage of functions. Understands Object Oriented Paradigm.
			C-2	Learns working with Class and member functions. Understands the concepts of Constructors and destructors and working with them.
			C-3	Understands of Inheritance and polymorphism and their usage in C++ programming. Understands C++ stream classes.
			C-4	Understands of exception handling and Template programming.

3	BS-306	Data Structures Using C++	C-1	Learns Fundamental concepts of Data Structures. Understands the implementation and applications of Stack data structure
			C-2	Understands the concept of Recursion verses iteration, Understands and working with Queue data structure, Understands the concepts of Linked Lists
			C-3	Understands non linear data structure tree, its variations and applications. Understands and learns various searching and sorting techniques and their implementation in C++ language.
			C-4	Understands non linear data structure Graph, its representations, traversals. Understands the concepts of spanning tree and minimum spanning tree. Learns Hashing and Heap concepts.
4	BS-406	Database Management Systems	C-1	Understands the concepts of database systems, database architecture, database users and understands Relational database concepts.
			C-2	Understands Database design and E-R model, Learns the Reduction of ER diagrams to relational schemas and its associated issues. Understands Redundancy, functional dependencies and normalization and their importance in Schemas.
			C-3	Learning SQL commands, working with SQL queries. Understanding the concepts of Views, functions and procedures, Triggers and their usage.
			C-4	Understanding Transactions, transaction management, concurrency control. Understanding transactions and recoverability. Understanding the concepts of Database security, Backup and recovery concepts
5	BS-505	Programming in Java	C-1	Understand Java language features, data types, structure of Java program, Control Structures, classes and objects
			C-2	Understands methods, constructors, Inheritance, Abstract classes Interfaces, and Packages and their implementation in Java program.
			C-3	Understands Exceptional handling, Multi-threading, and Java Streams and its implementation.
			C4	Learns about concepts of Applets, Event Handling, AWT and Swings.

6	BS-606	Web Technologies	C-1	Understands HTML structure, basic HTML tags, HTML frames, and HTML forms. Learns using of CSS in HTML
			C-2	Understands and learns Java script basics, control structures, and functions implementation.
			C-3	Learns implementation of Arrays in JavaScript, event handling in Java script and working with Java script objects.
			C-4	Learns and understands XML concepts, and basics of Ajax

DEPARTMENT OF ZOOLOGY

CO' S & PO' S

Zoology Department Profile

Establishment of college:

Telangana Tribal Welfare Residential Educational Institutions Society (TTWREIS) works under aegis of Tribal Welfare Department, Government of Telangana. It has been passionately working to place the poorest among the Scheduled Tribes in the prosperous orbit through quality education for the last 35 years. This society with 180 institutions (from 1st standard to Degree) with more than 50000 students has been providing quality education in English medium upto graduation.

The Government of Telangana, strongly believes that education is the right medium by which the lives of the marginalized children can be transformed in social and economic spheres thereby producing a new generation of empowered individuals from the marginalized sections in Telangana, who can lead the country in the 21st century.

The Government of Telangana has been giving major impetus to the educational empowerment of the marginalized students by launching Tribal Welfare Residential Degree Colleges.

As a part of this initiative, 22 Tribal Welfare Residential Degree Colleges are established in Telangana state by the Government of Telangana in 2017.

Establishment of the Department:

Department of Zoology was established in the year 2017 with B.Sc (B.Z.C) group. The Department has been progressing impressively with the available staff, students, facilities and infrastructure. The Department comprises of well equipped labs and good internet facility for the usage of ICT tools. Zoology Department gives exposure to the students to teaching, research related careers and also gives guidance in the preparation of various competitive exams at the state as well as at the national level. The Department has a library with all the textbooks and reference books related to the courses offered.

Vision:

To excel in the academics, research, imbibe scientific temper and contribute to sustainable development.

Mission

To ignite and nurture young talents, increase passion towards Zoology, to respect life in all its forms, to prosper economically, socially and strive towards holistic development.

Courses offered:

B.Sc (B.Z.C)

Faculty Profile:

S.No	Name	Qualification	Date of joining
1	M.Sujan Kumar	M.Sc,B.Ed,SET	04.09.2017
2	V.M.Lakshmi Prasanna	M.Sc,SET	08.08.2017

Programme Outcomes:

S.No	The students who complete B.Sc B.Z.C course successfully will be able to :
1.	Knowledge : Students get the knowledge of Animal diversity, Cell biology ,Molecular Biology, Genetics, Immunology, Ecology, Zoogeography and Evolution.
2.	Resource Utilisation: Students are able to use library, ICT tools,e –learning to cultivate the required skills and to remain update.
3.	Practical skills: Students are able to do practicals, analyse and apply the same to real life.
4.	Communication Skills: Students can communicate effectively in spoken and in written form.
5.	Conservation of environment: Students understand the impacts of pollution and make efforts towards the conservation of environment.
6.	Conservation of Biodiversity: Students understand the contribution of biodiversity for mankind and make a conscious choice of conserving biodiversity.
7.	Critical thinking and Problem solving skills: Students develop critical thinking and problem solving skills which can be applied to subject areas as well as real life.
8.	To appreciate nature, diversity of life and practice gratitude towards nature.
9.	Develop compassion towards animals.

Programme specific outcomes:

B.Sc Zoology

PSO 1:Students are able to identify Invertebrates and Vertebrates, understand the functioning of various systems, know the concepts of cell biology, molecular biology, genetics, developmental biology, animal behaviour, immunology, animal biotechnology, ecology, zoogeography and evolution.

PSO2:Perform laboratory procedures in the areas of invertebrates, vertebrates, biomolecules, cell biology, genetics, developmental biology, immunology, animal biotechnology, eecology, Zoogeography and evolution.

PSO3: Students become competent to opt for post graduation in Zoology and other higher education.

PSO4:Students become eligible to compete in various state and national level competitive exams.

Course Outcomes:

Animal Diversity-Invertebrates

CO1 :Able to identify and classify the Invertebrates as per their taxonomic position.

CO2:Know the grades of organisation and anatomy of Invertebrates.

CO3:Understand the life processes in the invertebrates.

CO4:Concepts of Coral reefs, Polymorphism.

CO5:Know the parasitic adaptations in Helminthes

CO6:Understand the concept of Pearl formation.

Animal Diversity-Vertebrates

CO1:Able to identify and classify Hemichordata and Chordata.

CO2:Understand the general characters of Vertebrates and classify them to order level.

CO3:Understand the anatomy of digestive system, respiratory system, circulatory system and nervous system of various vertebrates and their functions.

CO4:Understand the migration in fishes.

CO5: Know about Parental care in Amphibians, metamorphosis in Amphibians and its hormonal control.

CO6:Analyses the different types of Temporal fossae and its evolutionary significance.

CO7:Students learn to distinguish between poisonous and non poisonous snakes.

CO8:Understands the necessity of migration in birds and its types and why birds must exhibit flight adaptations.

CO9: Correlate the different types of dentition with the dietary habits of an animal.

Animal physiology and animal behaviour:

CO1:Students gain knowledge of the functioning of the digestive, respiratory, circulatory, excretory,nervous and endocrine systems.

CO2:Students gain the skills to execute their roles as a Biology teacher or medical lab technicians as they have basic fundamentals.

CO3:Students gain insights into the various behaviours of animals and the stimuli responsible for the behaviours.

CO4:Students learn to correlate behaviours to the survival significance of an animal.

Cell biology, genetics and developmental biology:

CO1:Understand the structure, functions of cell organelles and significance of mitosis and meiosis and the role of cell cycle regulating proteins.

CO2:Students understand the basic concepts of genetics, laws of inheritance.

CO3:Students are able to understand the reasons for various syndromes.

CO4:Understand the basic concepts of Developmental Biology.

Immunology and Animal Biotechnology:

CO1:Students gain knowledge of basics of immune system, cells, organs of the immune system.

CO2:Understand and analyse the mechanism of humoral and cell mediated immunity.

CO3:Understand the clinical significance of MHC in organ transplantation.

CO4:Know the structure and functions of antibodies.

CO5: Students gain knowledge of the abnormalities of immune system such as hypersensitivity, autoimmunity and immunodeficiency disorders.

CO6: Know the basics of animal biotechnology.

CO7: Gain knowledge and skills of various genetic engineering techniques.

CO8: Develops critical thinking and problem solving skills in utilising the benefits of animal biotechnology to mankind.

CO9: Fosters scientific temper and research skills by motivating the students to use biotechnology in the areas of diagnosis, treatment of diseases, environmental pollution, biodiversity conservation, animal husbandry and other areas for the betterment of human life.

CO9: Students gain insights into the ethical aspects involved in the production of transgenic plants and transgenic animals.

Ecology, Zoogeography and Evolution:

CO1: Students understand the interrelationships and interdependence between living and non living animals.

CO2: Understand the significance of various biogeochemical cycles.

CO3: Students understand the unidirectional flow of energy in the ecosystem.

CO4: Students learn and compare about various animal associations.

CO5: Students critically compare various species concepts.

CO6: Develops logical thinking and analytical skills and students can graphically represent the different types of population growth in the ecosystem.

CO7: Students know about various Zoogeographical areas and distribution of animals in them.

CO8: Critically analyse the factors affecting discontinuous distribution.

CO9: Understand the mechanism and forces acting upon continental drift.

CO10: Develops rational thinking and problem solving skills.

CO11: Students correlate different theories of evolution.

CO12: Students understand how different forces of evolution affect speciation.

CO13: Students develop logical thinking and problem skills while applying Hardy Weinberg equilibrium.

CO14: Understand the mechanisms of isolation and speciation.

L. Pran

Incharge

DEPT. OF ZOOLOGY

TTWRI Degree College (B)

Mripeda, Mahabubabad-508 315

R. Nayana

Princ

TTWRDC (B), Mahabubabad-508 315 (T.S.)



DEPARTMENT OF Commerce

CO' S & PO' S

POs/COs/PSOs

Programme Name: Bachelors of Commerce (B.Com)

Programme Outcomes

PO1: Commerce education is that area of education, which develops the required knowledge, skills and attitudes for the handling of Trade, Commerce and Industry.

PO2: Commerce education is entirely different from other disciplines. Hence, it must charter Course routes to service the aspirations of the nation.

PO3: To meet the growing needs of the business society, there is greater demand for sound development of commerce education.

PO4: The relevance of commerce education has become more imperative; this means a marked change in the way commerce and management education is perceived in India.

PO5: The Commerce education is dedicated to developing tomorrow's leaders, managers, and professionals.

Program Specific Outcomes (PSO)

Programme Name: B.Com- Computer Applications

After the successful completion of B.Com (Computer Applications) program, the students are expected to

PSO1 Know and apply the various business management and computer applications concepts to solve the real-world problems.

PSO2 Acquire the knowledge on object-based computer applications in various business fields.

PSO3 Solve the business applications related issues of using oracle and object oriented programming languages

PSO4 Analyze the real e-business problems by using the different applications of procedure-oriented language programs

PSO5 Enrich the practical knowledge on applications of accounting and programming languages in business ventures.

COURSE OUTCOMES
B.COM (COMPUTER APPLICATIONS)

SEMESTER-I

ENVIRONMENTAL STUDIES

On the completion of the course, Students will be able to

- Understand the definition, scope and importance of natural resources and associated problems
- Understand the concept of ecosystem and different types of ecosystem
- Understand biodiversity and its conservation
- Understand causes, effects and control measures of environmental pollution
- Understand the social issues and the various law to protect environment

SEMESTER-I

FINANCIAL ACCOUNTING - I

On the completion of the course, Students will be able to

- Understand the accounting principles, concepts and convention and to identify various subsidiary books in accountancy.
- To record the basic journal entries.
- Analyse what bank reconciliation statement is and understand about rectification of errors and suspense account
- Rectify errors in accounts
- Understand the various methods of calculating depreciation.
- Maintain the final Accounts of Sole trader

SEMESTER-I

BUSINESS ORGANIZATION

On the completion of the course, Students will be able to

- Provide understanding about business organization
- Create understanding about different business organisation forms
- Familiarise with Partnership form of organization and its comparison with sole proprietorship
- Provide understanding about kinds of companies and create awareness about multinational companies
- Get an idea about cooperative societies and Cooperative society movement in India
- Discuss the functions of SEBI and measures taken by SEBI to protect investors.

SEMESTER-I

BUSINESS ECONOMICS

On the completion of the course, Students will be able to

- Understand the role of business economics in decision making
- Analyse the demand determinants and measuring price elasticity of demand
- Analyse the peculiarities of factors of production
- Evaluate the supply and cost analysis of Total, Average and marginal curves.
- Identify Equilibrium, price and output decisions in various market forms

SEMESTER-I

INFORMATION TECHNOLOGY

On the completion of the course, Students will be able to

- Understand the concept of input and output devices of Computers and how it works.
- Understand the concepts, structure, types and design of operating Systems.
- Understand the concept of Data Communication, its Modes, its Forms and Data Communication Channels.
- Understand evolution of internet, its application and its basic services.
- Recognize when to use each of the Microsoft Office programs to create professional and academic documents.
- Create and design a spreadsheet for general office use.
- Students will have a working knowledge of basic functions and formulas in MS-Excel

FINANCIAL ACCOUNTING - II

SEMESTER - II

On the completion of the course, Students will be able to

- Analyse the essentials of bill of exchange and its accounting treatment.
- Learn the accounting treatments in consignments, commission, Bad debts valuation of unsold stock and calculation of normal and abnormal loss.
- Prepare joint venture accounts and methods of maintaining accounts.
- Understand the methods of calculating profits under single entry System.
- Understand the accounts of Non-Trading concerns..

MANAGERIAL ECONOMICS

SEMESTER - II

On the completion of the course, Students will be able to

- Apply marginal analysis to the "firm" under different market conditions;
- Understand the causes and consequences of different market structures;
- Apply economic models to examine current economic issues and evaluate policy options for addressing these issue
- Understand the meaning of marginal revenue and marginal cost and their relevance for firm profitability.
- Understand the basics of national income accounting
- Understand the causes and consequences of business cycles
- Understand the roles of fiscal and monetary policy in fighting recessions and inflation
- Understand factors that contribute to and detract from long-term economic growth
- Apply economic reasoning to understand the operation of an economy
- Apply basic international trade and finance concepts to global pricing issues, including working with exchange rates.

PRINCIPLES OF MANAGEMENT

SEMESTER - II

On the completion of the course, Students will be able to

- Develop knowledge about management
- Have a better understanding of planning and decision making
- Give an idea about organisation, departmentation and delegation
- Familiarise with directing, motivation theories, communication process and leadership
- Provide idea about requirements of coordination, control process and MIS

FOREIGN TRADE

SEMESTER - II

On the completion of the course, Students will be able to

- Compare at the level of formal analysis, the major models of international trade and be able to distinguish between them in terms of their assumptions and economic implications.
- Employ the principle of comparative advantage and its formal expression and interpretation within different theoretical models.
- Apply partial equilibrium and (where required) general equilibrium models in analysing the economic effects of
 - (a) trade policy instruments such as tariffs, quotas, export subsidies,
 - retaliatory measures such as anti-dumping duties and countervailing duties and
 - the creation of regional trading arrangements such as free trade areas, customs unions and common market

ADVANCED ACCOUNTING

SEMESTER - III

On the completion of the course, Students will be able to

- Learn about the journal entries of issue of shares and issue of debentures.
- To know about the meaning of companies and working style of companies.
- Know about about the final accounts of the companies.
- Learn about the valuation method of shares and goodwill and measurement of performance of companies.



- Work with profit prior to incorporation and post incorporation profits in companies accounts.
- Learn about the concept of sources of redemption of debentures and redemption of preference shares
- Easily examine the dissolution of partnership.
- Easily can prepare the journal entries of amalgamations and sale of partnership firms
- Understand the procedure for preparing capital accounts
- Understand and analyse the preparation of accounts on admission of partners
- Prepare accounts on retirement, death of partners

BUSINESS STATISTICS

SEMESTER – III

On the completion of the course, Students will be able to

- Student will able to apply knowledge to solve simple tasks using computer (MS Excel)
- Student will able to independently calculate basic statistical parameters (mean, measures of dispersion, correlation coefficient, indexes)
- Student will able to interpret the meaning of the calculated statistical indicators
- Student will able to choose a statistical method for solving practical problems
- Explain the primary concepts of statistics, data collection, sampling and tabulation
- Understand the concepts of measures of central tendency and solve problems
- Develop the ability to solve problems in correlation

INCOME TAX - I

SEMESTER – III

On the completion of the course, Students will be able to

- Understand the meaning of person, assesses, previous year, assessment year, total income
- Identify the residential status and incidence of tax and solve problems
- Compute taxable income from salary
- Compute taxable income from house property
- Understand the meaning of business and profession and compute taxable income.

PROGRAMMING WITH C

SEMESTER – III

On the completion of the course, Students will be able to

- Describe the concept of Programming.
- understand the features of Pointer in C
- understand the use of Array in C
- understand the function of Union and Structure
- Understand the concept of Display Methods.

CORPORATE ACCOUNTING

SEMESTER – IV

On the completion of the course, Students will be able to

- Calculate purchase consideration in case of Amalgamation, Absorption and reconstruction.
- Know about the companies all accounts.
- Get the Knowledge of banking system.
- Learn about working format of companies.
- Find out how can liquidation of company

BUSINESS STATISTICS - II

SEMESTER – IV

On the completion of the course, Students will be able to

- Student will able to explain probability theory and probability distributions in relation to general statistical analysis.
- Student will able to Understand and appreciate the need to solve a variety of business-related problems using a systematic approach involving accepted statistical techniques.
- Develop the ability to solve problems in regression analysis
- Calculate the index numbers and understand the concept of time series and their application

INCOME TAX - II

SEMESTER - IV

On the completion of the course, Students will be able to

- Identify long term and short term capital gain and calculate taxable capital gain
- Understand income under the head other sources and solve problems
- Compute set-off and carry forward of losses and aggregation of income
- Identify the deductions from Gross Total Income and understand returns, filing of return of income, due date, kinds of assessment and assessment procedure
- Compute income tax liability of individuals

AUDITING

SEMESTER - IV

On the completion of the course, Students will be able to

- Gain knowledge about auditing, audit programmes, working papers and preliminaries before audit.
- Analyse about implementing internal check and internal control in concerns.
- Understand the various aspects of vouching.
- Learn how to verify and value various assets and liabilities
- Evaluate the traits of Company Auditor and how to draft Auditors Report.

CONSUMERISM

SEMESTER - V

On the completion of the course, Students will be able to

- Gain knowledge about different types of consumers
- Understand the procedure to file a complaint and the steps to handle complaints
- Identify the functions of consumer dispute redressal agencies
- Analyse consumer exploitation and remedial measures to eliminate such exploitation

ORGANIZATIONAL BEHAVIOUR

SEMESTER - V

On the completion of the course, Students will be able to

- The Students clearly know the behavior of individuals and groups as part of the social and technical system in the work place.
- Identified the processes used in developing communication and resolving conflicts and explained the group dynamics and demonstrate skills required for working in groups (team building).
- The students may familiarize in various leadership styles and the role of leaders in a decision making process.
- This subject explained organizational culture and describe its dimensions and to examine various organizational designs.
- The students may clearly know the implementation of organizational change.
- On successful completion of the course the students should have to learn the various aspects and concepts in OB and learn OB theories clearly.

COST ACCOUNTING

SEMESTER - V

On the completion of the course, Students will be able to

- Understand the importance of costing in companies
- Gain knowledge about losses in process costing
- Define the various components of total cost of a product i.e. direct & indirect cost and fixed & flexible cost.
- Determine various levels of material i.e. reorder level, minimum level, maximum level & EOQ for managing working capital.
- Use methods of time-keeping & time-booking and manage idle & overtime.
- Define the features of overhead or indirect cost of production and basis of allocation and apportionment.
- Use cost-sheet to compute unit cost of product.
- Determine basis for computing tender price of a product.

SEMESTER - V

BUSINESS LAW

On the completion of the course, Students will be able to

- Understand the law and procedure of the contracts
- Analyse performance and the remedies
- Get clear idea about the guarantee of the parties under the contract
- Summarize sale of goods and rights and duties of buyer and seller
- Critically evaluate conditions and warranties of sale of goods act.
- Aware about rights to information
- Aware about Consumer protection act
- Aware about Environment protection act

SEMESTER-V

BANKING THEORY AND PRACTICE

On the completion of the course, Students will be able to

- To provide knowledge about commercial banks and its Services.
- To enable them to understand better customer relationship.
- To create awareness about modern banking services like e-banking, m- banking and Internet banking
- Demonstrate a comprehension of the principles of banking law and its relationship to banks and customers.
- Demonstrate an awareness of law and practice in a banking context.
- Engage in critical analysis of the practice of banking law from a range of perspectives.
- Organize information as it relates to the regulation of banking products and services.

SEMESTER-V

COMPUTERIZED ACCOUNTING

On the completion of the course, Students will be able to

- Gain the practical knowledge, implementation and operation of business with computer applications
- Work with simple formula for computation of Statement of Accounts.
- Achieve hands-on experience with productivity/application software to enhance business activities
- Accomplish projects utilizing
- Business theories, teamwork, Internet resources and computer technology.

SEMESTER-V

E-COMMERCE

On the completion of the course, Students will be able to

- Logically observed and experienced the main activities of E-Commerce.
- Learned and evaluated about the various components of E-Commerce.
- Conceptually learned the concept of online shopping and models of Electronic market.
- Thoroughly learned the concepts of instant messaging and Electronic Data Exchange.
- Learned about the implementation of HTTP and Secure Electronic transaction

OBJECT ORIENTED PROGRAMMING IN C++

SEMESTER-V

On completing the Course, students will learn:

- Articulate the principles of object-oriented problem solving and programming.
- Outline the essential features and elements of the C++ programming language.
- Explain programming fundamentals, including statement and control flow and recursion.
- Apply the concepts of class, method, constructor, instance, data abstraction, function abstraction, inheritance, overriding, overloading, and polymorphism.
- Program with basic data structures using array
- Program using objects and data abstraction, class, and methods in function abstraction.
- Program concepts of constructors and constructor overloading.
- Programming concepts of the Inheritance and its types.
- Usage of Templates.
- Programming Concepts of polymorphism and its types
- Analyze, write, debug, and test basic C++ codes using the approaches introduced in the course

SEMESTER – VI

PREPARATION OF TAX RETURN

- On the completion of the course, Students will be able to
- Able to understand amendments made from time to time in Finance Act.
 - Differentiate between direct and indirect tax assessment

SEMESTER – VI

ADVERTISING

- On the completion of the course, Students will be able to
- This Course will help the students to become a good Advertisers and Sales Executives.
 - To understand the objectives, types and effective measures for Advertising.
 - To familiarize with the Media of Advertising which enable students to choose proper media for the Advertisement.
 - To provide better skill development for a successful Salesman by understanding the way to interact with suppliers and customers
 - To understand the effectiveness of Sales organization and to be able to become a successful Sales Manager.

SEMESTER – VI

MANAGEMENT ACCOUNTING

- On the completion of the course, Students will be able to
- Understand the objectives and functions of management accounting
 - Imparted knowledge on capital budgeting and decision making techniques.
 - Provide knowledge about the preparation of various kinds of budgets.
 - Evaluate the financial position by using ratios
 - Define the terms with regard to BEP analysis.

SEMESTER – VI

COMPANY LAW

- On the completion of the course, Students will be able to
- Different kind of corporate entities that are permitted to be set up
 - Company incorporation and rules and procedures for running a company
 - Manner of raising funds and roles and responsibilities of directors
 - Rights and obligations of shareholders and other stakeholders including employees and creditors
 - Winding up of a company and its procedures Strategies

SEMESTER – VI

FINANCIAL INSTITUTIONS AND MARKETS

- On the completion of the course, Students will be able to
- Understand the structure and classification of capital market and analyse about Indian securities market.
 - Analyse about the Intermediaries in the financial market, methods through which the capital fund has been raised.
 - Understand the functions of stock exchange, listing of securities and major stock exchanges.
 - Analyse the commodity and financial derivatives and trading mechanisms.
 - Discuss the functions of SEBI and measures taken by SEBI to Protect investors

COMMERCE LAB SEMESTER – VI

- On the completion of the course, Students will be able to
- Understand the use of the memorandum of association and article of association in a company, they also learn from this course.
 - Use of prospectus in a company.
 - Aware about rights to information.
 - Aware about Consumer protection act
 - Identify the deductions from Gross Total Income and understand returns, filing of return of income, due date, kinds of assessment and assessment procedure

- Compute income tax liability of individuals
- create awareness about modern banking services like e-banking, m- banking and Internet banking
- The students are given an introduction about the risks and Insurance as a measure to manage risk.
- Detailed explanation regarding the different types of insurance and its modalities are included.
Students will get knowledge about the usage of insurance in personal and business life.

CYBER SECURITIES - VI

On the successful completion of the course, student will be able to:

- Discuss the concepts of Cyber law and Cyber Space
- Describe Cyber Security technical aspects.
- Explain the Evidence Aspects.
- Understand the Electronic Data Interchange Scenario in India.
- To gain knowledge on Information Technology Act.

Student Performance and Learning Outcomes

TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE (B) MARIPEDA

DEPARTMENT OF PHYSICS

PROGRAMME: B.Sc.

Programme Outcomes (POs)

Students having an academic background of science at 10+2 level can pursue B.Sc. programme in various branches. After the completion of the B.Sc. degree there are various options available for the science students, they can pursue master's degree in science (M.Sc.), work in research related fields and can even look for professional job-oriented courses. Often, in some reputed universities or colleges the students are recruited directly by big MNC's after the completion of the course. The student is also eligible for the job of a Medical Representative. The student after graduating will be eligible for various government exams conducted by UPSC, SSC etc.

Statements of Programme Specific Outcomes (PSOs)

By the end of the course, the students will be able to:

PSO1: Students are expected to acquire knowledge in physics, including the major branches of physics like classical mechanics, quantum mechanics, electromagnetic theory, electronics, optics, special theory of relativity and modern physics.

PSO2: Students are also expected to develop written and oral communication skills in communicating physics-related topics.

PSO3: Students should learn how to design and conduct an experiment (or series of experiments) demonstrating their understanding of the scientific method and processes. Not only that they are expected to understand the analytical methods required to interpret and analyze results and draw conclusions as supported by their data.

PSO4: Students will develop the proficiency in the acquisition of data using a variety of laboratory instruments and in the analysis and interpretation of such data.

PSO5: Students will learn the applications of numerical techniques for modeling physical systems through problems solving for which analytical methods are inappropriate or of limited utility.

PSO6: Students will realize and develop an understanding of the impact of physics and science on society.

PSO7: Apply conceptual understanding of the physics to general real-world situations.

PSO8: Describe the methodology of science and the relationship between observation and theory.

PSO9: Learn to minimize contributing variables and recognize the limitations of equipment.

PSO10: Discover of physics concepts in other disciplines such as mathematics, computer science, engineering, and chemistry.

PSO11: Develop the following experimental tools: Numerically model simple physical systems using Euler's method, curve fitting, and error analysis.

PSO12: Analyze physical problems and develop correct solutions using natural laws.

**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE
COLLEGE (B) MARIPEDA**

DEPARTMENT OF PHYSICS

PROGRAMME: B.Sc.

Statement of Course Outcomes (COs)

B.Sc. Sem-I Paper - I : Mechanics

By the end of this course, Students will be able to:

- Students can understand vector analysis,
- Study the collisions, behavior of rigid body dynamics
- Understand the concept of central forces.,
- Understand the negative result of Michelson Morley experiment, Galilean and Lorentz transformation

B.Sc. Sem-I Paper - I : Mechanics : Laboratory Course

By the end of this course, Students will be able to:

- Students can determine the acceleration due to gravity at their place,
- Students will be able to investigate Young's modulus and rigidity modulus
- Students can understand various properties of liquids i.e., surface tension, refractive index, viscosity

B.Sc. Sem-II Paper - II: Thermodynamics

By the end of this course, Students will be able to:

- Understand the concepts kinetic theory of gases and Thermodynamics.
- Understand the concept of Maxwell's Equations and Low temperature physics
- Understand the theory of thermal radiation, measurement of solar temperature.
- Understand the statistical methods in physics.

B.Sc. Sem-II Paper - II : Laboratory Course

By the end of this course, Students will be able to:

- Understand thermal conductivity of a bad conductor by Lee's method.
- Understand Specific heat of a liquid by applying Newton's law of cooling correction.

B.Sc. Sem-III: Paper- III (Electromagnetic Theory)

By the end of this course, Students will be able to:

- Study the electric field using Gauss law in electrostatics.
- Study and understand Ampere's law.
- Understand the Faraday's laws of electromagnetic induction
- Understand the Maxwell's laws of electromagnetic waves.

B.Sc. Sem-III: Paper-III Laboratory Course

By the end of this course, Students will be able to:

- Understand the networks Thevenin Theorem, Norton Theorem, Superposition Theorem and maximum power transfer theorem.
- To determine a small resistance by Carey Foster's bridge.
- To determine the (a) current sensitivity, (b) charge sensitivity, and (c) CDR of a B.G.

B.Sc. Sem-IV Paper-IV OPTICS

By the end of this course, Students will be able to:

- Understand the concept of vibrating in strings and bars.
- Overview of Interference, Diffraction and Polarization.

B.Sc. Sem-IV Laboratory Course

By the end of this course, Students will be able to:

- Understand measurement of wavelength using Newton's Rings method and minimum deviation, Normal method
- Understand Resolving power of telescope, Dispersive power of prism
- Understand the optical rotation.

B.Sc. Sem-V: Paper-V (Modern Physics)

By the end of this course, Students will be able to:

- Understand the vector atom model, Atomic and molecular Spectra.
- Understand Wave Particle Duality de Broglie hypothesis, Experimental confirmation of matter wave, Davisson Germer Experiment, velocity of de Broglie wave, Schrodinger wave equation.
- Understand Nuclear Physics Size and structure of atomic nucleus, nuclear radiation, and counters.
- Understand the solid-state physics, Bragg's law.

B.Sc. Sem-VI Laboratory Course

By the end of this course, Students will be able to:

- Understand Photoelectric effect.
- Estimate e/m of electron in different methods.
- Can work with GM Counter.

B.Sc. Sem-VI: Paper- VI (Electronics)

By the end of this course, Students will be able to:

- Understand Band theory of P-N junction, diodes, and transistors.
- Understand the special devices like LED, FET etc.
- Understand the importance of Digital Electronics.

B.Sc. Sem-VI Laboratory Course

By the end of this course, Students will be able to:

- Understand characteristics of diode, and transistor.
- Understand logic gates AND, OR, NAND, NOR etc.



TELANGANA TRIBAL WELFARE
RESIDENTIAL DEGREE COLLEGE (BOYS)
MARIPEDA



(Affiliated to Kakatiya University)

Arahagadda Stage, Maripeda, Mahabubabad Dist, Telangana-506315

DEPARTMENT OF BOTANY

PROGRAMME OUT COMES

- To enable the students understand the Microbial world, their diversity and lower plants, Bryophytes and Pteridophytes.
- To make the students aware of Gymnosperms, Angiosperm genera and understanding about Ecology.
- To introduce the students to the world of Embryology, Seed formation and internal organizations of plants.
- To enable the students to understand the field of cell biology, world of Genetics and Genes.
- To make the students know the scope of Physiology, water relationships.
- To make the students recognize and realize the need for conservation of Biodiversity.
- To introduce them the principles and protocols of plant tissue culture and Biotechnology.
- To make the students understand the role of plants in economic use and human welfare.
- To enrich the students with the knowledge of molecular basis of plant life.
- To make students know that the information encoded in genome is manifested as structure, process and behavior.

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TELANGANA TRIBAL WELFARE
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MARIPEDA



(Affiliated to Kakatiya University)
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DEPARTMENT OF BOTANY


PROGRAMME OUT COMES

- To enable the students understand the Microbial world, their diversity and lower plants, Bryophytes and Pteridophytes.
- To make the students aware of Gymnosperms, Angiosperm genera and understanding about Ecology.
- To introduce the students to the world of Embryology, Seed formation and internal organizations of plants.
- To enable the students to understand the field of cell biology, world of Genetics and Genes.
- To make the students know the scope of Physiology, water relationships.
- To make the students recognize and realize the need for conservation of Biodiversity.
- To introduce them the principles and protocols of plant tissue culture and Biotechnology.
- To make the students understand the role of plants in economic use and human welfare.
- To enrich the students with the knowledge of molecular basis of plant life.
- To make students know that the information encoded in genome is manifested as structure, process and behavior.

COURSE OUTCOMES OF BOTANY

- Critically evaluation of ideas and arguments by collecting relevant information about the plants, so as to recognize the position of the plant in the broad classification and phylogenic level.
- Identify problems independently propose solutions using creative approaches, acquired through Inter-disciplinary experiences.
- Accurately interpretation of collected information and are used for taxonomical information to evaluate and formulate a position of plant in taxonomy.
- Students will be able to apply the scientific method to question in botany by formulating the stable hypothesis, collecting data the address to hypothesis and analyze those data to assess the degree to which their scientific work supports the hypothesis.
- Students will be able to present scientific hypothesis and data both orally and in writing in the formats that are used by practicing scientists.
- Students will be able to access the primary literature, identify relevant works for a particular topic, evaluate the scientific context of these words.
- Students will be able to apply fundamental mathematical tools and physical principles to be analyzed of relevant biological situations.
- Students will be able to explain the ecological inter-connections of life on the earth by tracing energy and nutrient through cycle. They will be able to relate the physical features of the environment to structure of populations, communities and ecosystems.
- Students will be able to demonstrate proficiency in the experimental techniques and methods of analysis appropriate for their area.


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PROGRAMME SPECIFIC OUTCOMES OF BOTANY

- On completion of course, students are able to understand diversity among algae, economic importance of algae, importance of fungi and bryophytes.
- Students are able to understand bio-chemical nature of cell, bio-molecules structure and features of enzymes, understand the plant movements.
- Students are able to know the vegetative characters of plants, distinction between bryophytes, pteridophytes and gymnosperms.
- Students understand plant morphology and basic taxonomy.
- Students are able to understand mitosis, meiosis, cell divisions, world of genetics, genetic interactions, mendelism and neo-mendelism.
- Students are able to know the scope of physiology, understand water relationships.
- Students are able to understand plant communities and ecological adaptations.
- Students understand the role of plants in human welfare, economic use, importance of plant and plant physiology.
- Students come to know the scope of the paleobotany, fossils, geological time scale.
- Students understand the principles of plant bio-chemistry.
- Students get the knowledge of biology of vascular plants like pollution and fertilization.
- Students understand the principles and protocols of plant tissue culture and prokaryotic DNA replication.

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Telangana Tribal Welfare Residential Degree College (Boys)

Maripeda, Mahabubabad Dist. Telangana

Department of Chemistry

Course Wise Syllabus & Learning Outcomes

Semester-I (paper-I) to Semester-VI (Paper-VI)



Telangana Tribal Welfare Residential Degree College (Boys) Maripeda,
Mahabubabad Dist. Telangana State
Department of Chemistry

Course Wise Learning Outcomes

from Semester-I (paper-I) to Semester-VI (Paper-VI)

Course Name	Course Outcomes
B.Sc Chemistry 1st Year Semester-I	
<u>B.Sc 1 year Chemistry Semester-I (Paper-I)</u> S1-I1. Chemical Bonding S1-I2 p-block elements-I S1-O1 Structure theory in Organic Chemistry S1-O2 Acyclic Hydrocarbons S1-P1 Atomic structure & elementary quantum mechanics S1-P2 Gaseous State S1-P3 Liquid state and Solutions S1-G1 General principles of Inorganic Qualitative analysis S1-G2 Isomerism S1-G3 Solid state and Chemistry	At the end of the course the student will be able to <ul style="list-style-type: none">➤ Understand the structure of atom and the arrangement of elements in the periodic table. Identify the structure of a given inorganic compound.➤ Understand the basic concepts of p-block elements.➤ Understand and explain the differential behaviour of organic compounds based on fundamental concepts learnt. Learn and identify many organic reaction mechanisms.➤ Understand the structure of atom and the arrangement of elements in the periodic table.➤ Explain the difference between solids liquids and gases in terms of intermolecular interactions. Differentiate ideal and real gases. Discuss the basic concepts of two component systems➤ Apply the concepts of ionic equilibrium for the qualitative analysis.➤ Correlate and describe the stereo-chemical properties of organic compounds and reactions➤ students will be in a position to apply the concepts of the topic in various scientific situations, say, conductivity of crystals due to crystal defects etc.
Laboratory Course Paper-I (Semester-I) Qualitative inorganic analysis – Two cations and two anions.	At the end of the course, the student will be able to: <ul style="list-style-type: none">❖ Understand the basic concepts of qualitative analysis of inorganic mixture.❖ Use glassware, equipment and chemicals and follow experimental procedures in the laboratory.❖ Apply the concepts of common ion effect, solubility product and concepts related to qualitative analysis.

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B.Sc Chemistry 1st Year Semester-II

B.Sc 1 year Chemistry Semester-II

(Paper-II)

S2-I1 p-block elements -2
S2-I2 Chemistry of zero group elements
S2-I3 Chemistry of d-block elements
S2-O1 Halogen compounds
S2-O2 Hydroxy compounds and ethers
S2-O3 Carbonyl compounds
S2-P1 Electrochemistry
S2-G1 Theory of quantitative analysis
S2-G2 Stereoisomerism
S2-G3 Dilute solutions and colligative properties

At the end of the course the student will be able to

- Understand the basic concepts of p-block and zero group elements
- Explain the concepts of d-block elements
- Acquires knowledge on halogen derivatives of organic compounds, Importance of stereochemistry in the organic reactions especially in substitution reactions.
- Able to differentiate alcohols and phenols, able to write preparative methods for alcohols and phenols.
- Distinguishes between different carbonyl compounds, able to write preparation methods, Synthetic importance of base catalysed reactions.
- Electrolytes and weak electrolytes. Able to understand effect of dilution on conductance for strong electrolytes and weak electrolytes. Student could able to calculate the EMF of the given cell. Differentiate the reversible and irreversible cells.
- Student could able to learn and acquired skill on different titrations for quantitative determinations. Acquire skill on choice of indicators in titrations. Learn Chemical calculations in gravimetric and volumetric analysis
- Students could able to determine the molecular weight by using experimental determination of Colligative properties.
- Correlate and describe the stereochemical properties of organic compounds.

Laboratory Course-II- Quantitative analysis

Acid-Base titrations
Redox titrations
Complexometric titrations

At the end of the course, the student will be able to;

- ❖ Use glassware, equipment and chemicals and follow experimental procedures in the laboratory
- ❖ Understand and explain the volumetric analysis based on fundamental concepts learnt in ionic equilibria
- ❖ Learn and identify the concepts of a standard solutions, primary and secondary standards
- ❖ Facilitate the learner to make solutions of various molar concentrations.

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B.Sc Chemistry 2nd Year Semester-III

**B.Sc II year Chemistry Semester-III
(Paper-III)**

S3-I1 Chemistry of f-block elements
S3-I2 Coordination compounds-I
S3-I3 Metal carbonyls and OMCs
S3-O1 Carboxylic acids and derivatives
S3-O2 Nitro hydrocarbons
S3-O3 Amines, Cyanides and
Isocyanides
S3-P1 Thermodynamics-I
S3-P2 Thermodynamics-II
S3-G1 Evaluation of analytical data
S3-G2 Carbanions-I
S3-P3 Phase Rule

At the end of the course the student will be able to

- Distinguish lanthanides and actinides.
- Students able to learn the bonding in the coordinate compounds, stability, colour and magnetic properties. Learn the CFSE calculations, Isomerism in complex compounds.
- Calculation of EAN and its relation with stability of metal carbonyls.
- Names the carboxylic acids according to IUPAC, describes the acidity, write the methods of preparation and reactivity.
- Able to understand the nomenclature of nitro hydrocarbons. Students understand the nomenclature, Basicity, comparison of basicity, separation and Chemical properties of amines.
- Able to learn the different types of thermodynamic systems, reaction energies, feasibility of the chemical reactions, entropy and its significance.
- Could able to process the analytical data. Could learn how to minimise errors in chemical experiments
- Students could able to learn the applications of phase rule in metallurgy, de-silverisation of lead.

**Laboratory Course -III - Organic
preparations**

On the completion of the course, the student will be able to do the following:

- ❖ How to use glassware, equipment and chemicals and follow experimental procedures in the laboratory.
- ❖ How to calculate limiting reagent, theoretical yield, and percent yield.
- ❖ How to perform common laboratory techniques including reflux, distillation, recrystallization, vacuum filtration.
- ❖ How to critically evaluate data collected to determine the identity, purity and percent yield of products and to summarize findings in writing in a clear and concise manner.

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B.Sc Chemistry 2nd Year Semester-IV

<p><u>B.Sc II year Chemistry Semester-IV (Paper-IV)</u> S4-I1 Coordination compounds-II S4-I2 Bionorganic Chemistry S4-O1 Carbohydrates S4-O2 Aminoacids and Proteins S4-O3 Heterocyclic compounds S4-P1 Chemical Kinetics S4-P2 Photochemistry S4-G1 Theories of bonding metals S4-G2 Carbamions-II S4-P3 Colloids & Surface Chemistry</p>	<p>At the end of the course the student will be able to</p> <ul style="list-style-type: none"> ➤ Understand the various theories, structure and stereo chemistry of coordination compounds, ➤ Explain the biological significance of various elements present in the human body. ➤ Describe the preparation and properties of amino acids ➤ Discuss heterocyclic compounds with N, O and S. ➤ Determine the order of a chemical reaction. Describe the basic concepts of enzyme catalysis. ➤ Discuss the basic concepts of Photochemistry. ➤ Explain the existence of types of forces and bonding in metals. ➤ Apply the concepts of adsorption and types and applications of colloids
<p>Laboratory course-IV (Organic Qualitative analysis) Analysis of an organic compound through systematic qualitative procedure</p>	<p>At the end of the course, the student will be able to;</p> <ul style="list-style-type: none"> ❖ Use glassware, equipment and chemicals and follow experimental procedures in the laboratory ❖ Determine melting and boiling points of organic compounds ❖ Understand the application of concepts of different organic reactions studied in theory part of organic chemistry

B.Sc Chemistry 3rd Year Semester-V

<p><u>B.Sc III year Chemistry Semester-V (Paper-V)</u> S5-AE1 Molecular Spectroscopy (UV, IR) S5-AE2 Molecular Spectroscopy (NMR & Mass) S5-AE3 Separation techniques & TLC & paper Chromatography S5-AE4 Column, GC and HPL chromatography</p>	<p>Students after successful completion of the course will be able to</p> <ul style="list-style-type: none"> ➤ Students will able to apply Beer-Lambert law for quantitative determinations. ➤ Able to identify the type of conjugation in organic molecules and effect of conjugation on colour of the compounds. ➤ Able to know the modes of vibrations in organic molecules. ➤ Able to identify type of functional group present in the organic molecules. ➤ Identify the importance of mass spectrometry in the structural elucidation of organic compounds. ➤ Identify the importance of chromatography in the separation and identification of compounds in a mixture. Acquire a critical knowledge on various chromatographic techniques. ➤ Could aware on the Batch extraction, continuous extraction and counter current extraction and their applications.
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<p>Laboratory Course-V (Physical Chemistry) Distribution, Conductometry, Colorimetry, Adsorption and Physical constants</p>	<p>At the end of the course, the student will be able to:</p> <ul style="list-style-type: none"> ❖ Use of glassware, equipment and chemicals and follow experimental procedures in the laboratory. ❖ Understand and apply the concepts of solutions practically. ❖ Apply concepts of electrochemistry in experiments. ❖ Apply concepts of surface chemistry in experiments. ❖ Be familiar with the concepts & practical applications of Surface tension and viscosity of liquids.
<p>B.Sc Chemistry 3rd Year Semester-VI</p>	
<p>B.Sc III year Chemistry Semester-VI (Paper-VI) S6-EA1 Introduction and Terminology-Drugs S6-EA2 Enzymes and Receptors S6-EA3 Synthesis and Therapeutic activity of Drugs S6-EA4 Molecular Messengers and Vitamins</p>	<p>Students after successful completion of the course will be able to:</p> <ul style="list-style-type: none"> ➤ Explain the principles of formulation and application of Drugs. ➤ Acquire a critical knowledge on synthetic techniques of drugs. ➤ Know the Terminology in Pharmaceutical chemistry. ➤ Learn the procedure for Synthesis and therapeutic activity of the compounds. ➤ Acquire knowledge on Molecular Messengers and Vitamins
<p>Laboratory Course-VI (Physical Chemistry) Kinetics, Potentiometry, Conductometry and pH metry</p>	<p>On successful completion of this practical course, student shall be able to:</p> <ul style="list-style-type: none"> ❖ List out, identify and handle various equipment in Chemistry lab. ❖ Apply concepts of electrochemistry in experiments. ❖ Acquire skills in the operation and calibration of pH meter, Perform the strong acid vs strong base titration using pH meter ❖ Learn and apply the concepts of electro chemistry in experiments. Be familiar with electro analytical methods and techniques which study an analyte by measuring the potential in an electro chemical cell containing the analyte.


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TTWR Degree College Maripeda

Program Outcomes

Group: B. Sc (Chemistry)

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


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**TTWR DEGREE COLLEGE (BOYS) MARIPEDA
DEPARTMENT OF HISTORY**

B.A HISTORY COURSE OUTCOMES

HISTORY AND CULTURE OF INDIA UP TO 700 CE -I

SEMESTER -I

On the successful completion of the course the student will be able to

- Indian history and culture helps develop a better understanding of Indian culture up to 700 CE.
- Socio- Economic conditions of Indian history up to 700 CE.
- Religious practice and customs and traditions became aware of specific period.
- To learn about new religious movement which were stated to arrest the religious unrest?
- Evolution of ancient Indian civilizations.
- Became aware of development of scientific knowledge during ancient period.
- Know above dates and facts and places in the period.

HISTORY AND CULTURE OF INDIA 700 - 1526 CE -II

SEMESTER -II

On the successful completion of the course the student will be able to

- Indian history and culture help to develop a better understanding of medieval India.
- Study of Pallavas period comes to know how the develop the art and architecture.
- Study of Chola period we can understand the Cholas local self government.
- Study of this period we can learn about the new religious movements like Shaiva Nayanars and Vishnava Alvars.
- Study of this period a comes to know the impact of bakti and sufi movements on our Indian society and culture
- Study of Kakatiya period we comes to know about the art and architecture of that period
- Study of Kakatiya period we can understand the system of pond technology
- Study of Vijayanagara period we can understand how the Vijayanagara kings developed the language and literature

HISTORY AND CULTURE OF INDIA 1526 - 1857 CE -III

SEMESTER -III

On the successful completion of the course the student will be able to

- Study of this period we come to develop an idea about the political-economic, cultural and religious conditions of this period
- Study of this period we can understand about the establishment Mogal dynasty
- Study of this period we can have an idea about the Mughal art and architecture
- Study of this period we can have a n idea about the regional powers like Marata and Sikhs
- Study of this period we comes to know about the colonialism mercantilism and free trade policies of British Period
- Study of this period we comes to know about the changes in the agrarian economy and peasant conditions in British period
- Study of this period we can have a understand about the facts of anti colonial upsurge like 1857 revolt

HISTORY AND CULTURE OF INDIA 1857 - 1964 CE -IV

SEMESTER -IV

On the successful completion of the course the student will be able to

- Study of this period we can have an idea about the western education and its impact Indian society
- Study of this period we can known about the socio- religious reforms like Arya Samaj, Brahama Samaj
- Study of this period we can have an idea about anty caste movement like Jyothiba Pule Narayana guru, Dr.B.R.Ambedkar.
- Study of this period we can have understand of about factors for the rise of Nationalism.
- Study of this period we can have an idea about the three phases of freedom struggle
- Study of this period we can have aniseed about the revolute movements Gaddar Party, Bhagath sing Chandra shekar Azad and left wing movements
- Study of this period we can have an idea about the Nehru and his policies

WORLD HISTORY 1453 - 1950 CE -V SEMESTER -V

On the successful completion of the course the student will be able to

- To know the about the dates facts and places of world history
- Emergence of new technologies that leads to geographical discoveries
- Fall of Constantinople that resulted in discovery of sea root to India and new world
- Factors that caused renaissance and reformation
- Emergence of new national states
- Establishment colonialism in the East Indian and new world
- Causes of French revolution succeeded by other revolution and their impact on the world history
- The reformative measures introduced by Napoleon and their consequence on the world
- Study of this period we comes to know about the revolutions and unifications in Europe
- Study of this period we have an idea about factors of First World War and impact of First World War on our world
- Study of this period we comes to know about the revolution of Russia and its result
- Study of this period we have an idea about Nazism and Fascism and militarism
- Study of this period we can have an idea about Second World War and establishment of united national's organizations
- Study of this period we can have an idea about colonization Asia- India and china

HISTORY OF TELANGANA FROM EARLIST TIMES TO 2014 CE

SEMESTER -VI

On the successful completion of the course the student will be able to

- Comes to know about the date facts and places of Telangana
- We can an idea about the sources of Telangana history
- We can develop special idea about the geographical feature of and impact of geographical feature on Telangana history
- Study of this period we can develop an idea about the culture and history of Telangana from earliest time
- Study of this period we can have an idea about the civilizations from ancient period to modern period
- It can helps us to know the about the development of language literature art and architecture in different periods
- We can learn about the specific revolts like Sammakka and Saarakka and Sarvai Papanna
- Study of this period we can have an idea about anti Nizam, anti feudal struggle and also peasant armed struggle in Telangana
- It can help to know about the violation of Gentleman Agreement which helps to
- It can also help to know factor and regions for the movement of separate Telangana
- Study of this period we comes to know about the recommendations of Sri Krishna committee
- It can help to know about the two phases of separate Telangana movement.

**TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE (B),
MARIPEDA**

DEPARTMENT OF ECONOMICS

B.A COURSE OUTCOMES

MICRO ECONOMICS -I

SEMESTER

-I

On the successful completion of the course the student will be able to

- Apply and analyze concepts and theories in micro economics
- Student will develop an ability to attempt questions in competitive examinations
- Students will be able to appraise and assess the theories in micro economics and apply them in real life situations
- Ability to develop an understanding of the subject areas in Economics with its intricacies and imperfections and to be able to construct intellectual dialogue.
- Ability to discuss and debate on the changing structures and theoretical developments in the subject.

MACRO ECONOMICS-II

SEMESTER –

II

On the successful completion of the course the student will be able to

- The concepts of macro economics like opportunity cost, economic fluctuations etc.
- Students will be able to explain the concepts of National income, inflation and concepts related to inflation and unemployment, and how they are measured.
- Students will be able to explain the circular flow model and use the concepts of aggregate demand and aggregate supply to analyze the response of the economy to disturbances.
- Students will be able to describe the determinants of the demand for money, the supply of money and interest rates and the role of financial institutions in the economy.
- Students will be able to define fiscal and monetary policies and how these affect the economy

STATISTICS FOR ECONOMICS-III

SEMESTER –III

On the successful completion of the course the student will be able to

- It enhances them to compute and assess the real situation of economy.
- Identifying graphical and numerical methods to calculate and illustrate descriptive statistics.
- To know about matrices, averages, probability etc

INDIAN ECONOMY –IV IV

SEMESTER –

On the successful completion of the course the student will be able to

- Identify the characteristics of Indian Economy as a Developing Economy
- Describe the Demographic Trends in India
- Evolution of Planning commission, NITI Ayog.
- Infrastructure Development, Transport, Banking, Insurance and IT Sector.
- Economic Reforms LPG.

AGRICULTURE ECONOMICS –V (A) V

SEMESTER –

On the successful completion of the course the student will be able to

- Describe Agriculture and Economic Development
- Understand the Agriculture Labor
- Write down the land reforms
- Describe the various sources of Agriculture Finance
- Write down the Agricultural Price Policy
- Agriculture Marketing, Food Security.

DEVELOPMENT ECONOMICS –VI (B)
–VI

SEMESTER

On the successful completion of the course the student will be able to

- Measurements of Economic Developments.
- PQLI, HDI, GDI, GEM, GII and HPI.
- Theories of Economics Development
- Choice of Techniques
- External resources, FDI
- External Borrowings, IMF, World Bank.

DEPARTMENT OF POLITICAL SCIENCE

B.A COURSE OUTCOMES

UNDERSTANDING POLITICAL THEORY-I

SEMESTER –I

On the successful completion of the course the student will be able to

- To understand the nature and scope of political theory.
- To understand the significance of political Theory.
- To appreciate the procedure of different theoretical ideas in political theory.
- To interpret and assess information regarding a variety of political theory.

WESTERN POLITICAL THOUGHT-II

SEMESTER –II

On the successful completion of the course the student will be able to

- To understand the concept of Greek Political thought.
- To understand thoughts of Plato and Aristotle.
- To learn the thoughts of Thomas Aquinas and Niccolo Machiavelli.
- To compare the thoughts of western political thinkers.

INDIAN POLITICAL THOUGHT- III

SEMESTER –III

On the successful completion of the course the student will be able to

- To understand the thoughts of Manu, Buddha and Kautilya.
- To understand thoughts of Basava and Barani.
- To understand thoughts of Raja Ram Mohan Roy and Pule.
- To understand compare of Indian Political thinkers.

CONSTITUTION & POLITICS IN INDIA –IV

SEMESTER –IV

On the successful completion of the course the student will be able to

- To understand the philosophy of Indian Constitution.
- To identify the causes impact of British colonial rule.
- Create value in young youth regarding the patriotism.
- To know the powers and functions of Government.

INTERNATIONAL RELATIONS –V

SEMESTER –V

On the successful completion of the course the student will be able to

- To analyze the history of international relational through the causes and phases of colonialism.
- To know the impact of First World War and Second World War and its causes and consequences.
- To criticizes the various ideologies which lead to the destruction of world.
- To appreciates the post war developments through the emergence of third world.

GLOBAL POLITICS –VI (A)

SEMESTER –VI

On the successful completion of the course the student will be able to

- To understand the concept of power, nationalism, regional global and peace security.
- To understand the international organization and their modules nation.
- To analyze the international security arms Race, Arms Control and disarmament.
- To identity various issues and challenges towards international relations.
- To learn about issues of diversity and internationalism.
- To learn about international human protection institutions.