



**TELANGANA SOCIAL WELFARE RESIDENTIAL DEGREE COLLEGE
OR WOMEN WANAPARTHY**

Wanaparthi - 509103



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CROSS CUTTING ISSUES

DEPARTMENT OF ENGLISH

Paper	Title of the paper
First year	Lang Scape
Second year	Eng Scribe
Third year	English in Action

LangScape is a general English textbook for the first year undergraduate students of Palamuru University. It intends to teach English by developing the listening, speaking, reading, writing and thinking skills of the undergraduate students. While designing the book, the major concern of the editors was to provide select literary pieces that could be dealt with as stand-alones in order to introduce the broad genres of poetry, prose, short stories and drama to the undergraduate students of all branches/courses. The textbook also intends to enhance the aptitude of undergraduate students in English language skills by strengthening their phonological and linguistics competence. In addition, the textbook brings together some of the most vital aspects of the English language that students will come across throughout their academic journey and beyond.

Given the overall contents of LangScape, it could be safely stated that the textbook is sure to add to the intellectual and conceptual make-up of the learners. The units under each semester are a judicious mix of topics that unveil relevant information on literature, vocabulary, grammar and phonetics, respectively. The emphasis in all the units is on individuality and enhancing the quest for knowledge and wisdom. All units have been selected keeping the diverse background of the learners

in mind, but the common thread running through them is that they all espouse important values and principles of life. Each chapter imparts values and knowledge that mould the character of the students and broaden their horizons. The units are selected to ensure that students gain an understanding of the basic features and structures of the English language and communication.

Practice makes a human being perfect. With that thought in mind, the textbook includes ample exercises for the students to comprehend and practise the four language skills that are gaining importance as a foundation for communication. The idea is to take the students through a journey of reading, understanding and interpreting a variety of written texts. The objective of the book is to help students attain an excellent command of the English language and also imbibe the values that build strength of character to face the challenges of life.

EngScribe is a general English textbook for the second year undergraduate students of Palamuru University. It intends to teach English by developing the listening, speaking, reading, writing and thinking skills of the undergraduate students. While creating the book, the editors aimed at bringing together some of the most vital aspects of English language that students will be concerned with throughout the course of their academic curriculum. The primary aim of the textbook is to enhance the aptitude of undergraduate students in English language skills by strengthening their grammar and vocabulary, improving their reading and writing skills and enhancing their listening and speaking skills.

Given the overall contents of EngScribe, it could be safely stated that the textbook is sure to add to the intellectual and conceptual make-up of the learners. The units under each semester are a judicious mix of topics that unveil relevant information on literature, vocabulary, grammar, writing and speaking skills, respectively. The emphasis in all the units is on individuality and enhancing the quest for knowledge and wisdom. All the units have been selected keeping the diverse background of the learners in mind, but the common thread running through them is that they all espouse important values and principles of life. Each chapter imparts values and knowledge that mould the character of the students and broaden their horizons. The units are selected to ensure that students gain an understanding of the basic features and structures of the English language and communication.

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English in Action will be used as the prescribed textbook for third year General English courses of Osmania University from the academic year 2021-22. The book is, therefore designed to address the specific needs of the final year students who are about to encounter the workings of the English language in the real world. English in Action is similar English in. Use (2nd Edition) in terms of the course structure. However, the book has significant new feature. Two units, one each in Semesters V and VI, focusing on the them of gender have been included in the syllabus to highlight the need for gender equality. The two theme-based units contain texts that engage the student's attention as much by their fine use of language as by their stimulating ideas. A special note to the teachers is also added to the units to help them with the necessary theoretical and contextual background Thus, the book in general and the two units in particular seek to equip the students wit the necessary language skills while acknowledging their critical thinking capabilities The exercises and the pre- and post-reading activities that supplement the main texts are designed to draw the students into the text, make them read the text with understanding and insight, and encourage them to think beyond the text.

All selection is ultimately subjective, and the selection of texts in this book is no exception However, the selection has been guided by three broad criteria: readability, teachability and testability of the texts. It is hoped that the students will find them interesting to read the teachers will find them suitable for teaching in the classroom and examiners will find them substantive for testing in the examination.



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DEPARTMENT OF TELUGU

Relevant to ethics ,human values, culture ,develop communicative competence ,creative and critical thinking ,practical ,technical and employability skills social sensibility and responsibility into the curriculum. Telugu syllabus includes not only Telugu literature it has it's added value by involving the following issues.

The syllabus addresses

***Indian Heritage and culture**

Example: Rudramadevi 1st semester non- detailed text

***Gender sensitization and gender discrimination**

Example: Shakunthalopakyanam 1st semester

***Human values and co-existence flora and fauna and awareness on Telangana language and dialect**

Example: Enkanna - 2nd semester

***Human values and personality development**

Example: kasulu – 1st semester

Prapanchapadulu – 2nd semester

Naruda nenu naruda- 4th semester

Subhashithalu – 4th semester

***Social awareness**

Example: 3rd semester

***Life skills**

Example: Dharmajuni vaakchathuryam - 3rd semester

Vibhishana sharanaagathi-3rd semester

***Motivation and preparation in life long learning**

Example: Gurudakshina-3rd semester

C.p.Brown sahitya seva - 4th semester

***Improve creative writing and reading skills**

Example: pusthaka sameeksha - 5th semester

*Social responsibility

Example': Journalism - 6th semester

*Social awareness and emotional intelligence,
Team work and communication skills and
Gain social cultural and political consciousness.

Example: Journalism- 6th semester

*Performing arts

Example: Pata and padyam - 5th semester

Naatakam- 6th semester

*Aware about Telugu poem and aesthetic and Improve comprehensive and grammar skills

Example: Chandassu and alankaralu

*Converted into creative skills
Pata and Naneelu - 5th semester
Vyasam - 6th semester

*Develop research strategy and methodology, Research orientation

Example: project- 6th semester
Kathanika and Novel- 6th semester

*Develop public speaking skills
Example: upanyasa kala - 6th semester



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DEPARTMENT OF MICROBIOLOGY

Microbiology and Human Health

Microorganisms, whether beneficial or harmful, have a significant impact on various aspects of our lives. They aid in environmental maintenance by decomposing dead and decaying matter, while also contributing to the health of humans and animals as normal flora.

Conversely, they can also be pathogens, causing a range of diseases from mild to severe.

Understanding microorganisms, preventing associated diseases, enhancing immunity and host resistance, and utilizing probiotics and vaccines are crucial.

Furthermore, awareness of health hazards stemming from waste and promoting safe disposal practices are essential for fostering a responsible approach to maintaining a safe and healthy environment.



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DEPARTMENT OF BOTANY

The Department of Botany follows the curriculum of Palamuru university and it offers a paper on Environmental studies for first semester students to inculcate the knowledge on environmental issues with 2 credits under the Ability Enhancement Course (AECC) for all courses.

The Department of botany takes responsibility of teaching to the life Sciences and Physical sciences students.

Palamuru University also offers a paper on NURSERY AND GARDENING 3rd semester and GREEN HOUSE TECHNOLOGY 4th semester students to develop proficiency in the students towards self-employment and the knowledge on agro related industries with 2 credits under the Skill Enhancement course (sec). The Department of Botany teaches these two subjects to the BZC students.

Environmental Studies (AECC)

This is a capability enhancement compulsory course. This subject brings together principles of physical sciences, life sciences, economics and social sciences to solve contemporary environmental problems. Environmental Studies may be multi-disciplined subject which systematically studies human interaction with the environment. The institution has four NSS units, where various social events are conducted like tree plantation, rallies with in the neighborhood to make awareness about water conservation and energy conservation. Initially Environmental Studies were taught in the second year but after the implementation of CBCS, it's been incorporated with in the first semester curriculum. Hence, the implementation of this subject is to create awareness about environmental issues among students.

NURSERY AND GARDENING (SEC)

Nursery and Gardening can provide students an opportunity to investigate and compare the basic physical characteristics of plants, what helps or hinders their growth, and their response to stimuli and environmental growing conditions throughout the season. students also have a chance to observe similarities and differences in the needs of various living things, and differences between living and non-living things gardens can serve as living laboratories in which students see and experience first -hand what they are learning and, intern, apply that knowledge to real -world situations when students engage in hands -on gardening lessons, they show an increase in positive attitude towards content material and learning. In general. Studies show that the education acquire in the garden can increase students overall academic performance. It offers not only a wide range of

options to the farmers for crop diversification, but also provides ample scope for sustaining a large number of Agro industries which generate huge employment opportunities. This sector has also started attracting entrepreneurs to take up Nursery and Gardening as a commercial venture. Therefore, there is a great scope for the students for self-employment.

GREEN HOUSE TECHNOLOGY (SEC)

The program is designed for students interested in a career in the greenhouse sector. It contains 2 credits program where the student learns through a combination of in-class lectures, and greenhouse visits. As part of the program, the students will be responsible to complete a capstone course where they will draw from knowledge, skill and experience gained in all courses and their placement.

This program will provide students with the knowledge necessary to work in the greenhouse sector as Greenhouse Technicians. These operations could include vertical or container farms where vegetables, flowers, fruits, microgreens and other crops are grown and harvested. Under Graduates are expected to find work in greenhouse production, assistant and head growers, pest management specialists, supervisors, or managers as well as opportunities in the logistics team. The under graduates may be employed in greenhouse sector or the support services such as suppliers (fertilizers etc.), manufacturers, logistics and government positions (production technicians).



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DEPARTMENT OF ZOOLOGY

Zoology course curriculum comprises the topics on Animal Diversity-Invertebrates, Animal Diversity-Vertebrates, Animal Physiology and Animal behavior ,Cell Biology, Genetics and Developmental Biology. Immunology and Animal Biotechnology, Ecology, Zoogeography and Evolution in order to sensitize the students about the importance of Taxonomy, Classification ,Identification different animal Species, to create awareness regarding the vital organs and organ systems, Inheritance, usage of Science and technology in Life sciences to treat different diseases and to have the knowledge of Environment and its sustainability and Evolution.

By studying the diversity of animals, the students are motivated towards conservation of Biodiversity. Analysis of animal behavior by the students improves the better understanding of the Animal World Immunology sensitizes students on communicable and Non-communicable diseases and to lead a healthy Lifestyle. Knowledge in Genetics helps in understanding congenital disorders, Blood group matching, Role of Rh factor in Genetically incompatible marriages.

In Humans Basic knowledge in Biotechnology and Public health and Hygiene helps to meet the growing needs in Medicine, Food science, Forensic science of Humanity. Under Applied Zoology section, students learn about Aquaculture, Vermiculture, Apiculture as a source of self-employment. Knowledge of Zoology makes sense only in the light of Evolution. Related awareness programmers on the above issues are periodically organized every year by involving students.



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DEPARTMENT OF PHYSICS

The Department of Physics follows the curriculum of Palamuru university and it offers a paper on Environmental studies for first semester students to inculcate the knowledge on environmental issues with 2 credits under the Ability Enhancement Course (AECC) for all courses.

The Department of Physics takes responsibility of teaching to the life Sciences and Physical sciences students. Palamuru University also offers a paper on **Electrical Circuits and Networking** 3rd semester and **Basic Instrumentation** 4th semester students to develop proficiency in the students towards self-employment and the knowledge on electrical devices and its working with 2 credits under the Skill Enhancement course (SEC). The Department of Physics teaches these two subjects to the MPC students.

ENVIRONMENTAL STUDIES (AECC)

This is a capability enhancement compulsory course. This subject brings together principles of physical sciences, life sciences, economics and social sciences to solve contemporary environmental problems. Environmental Studies may be multi-disciplined subject which systematically studies human interaction with the environment. The institution has four NSS units, where various social events are conducted like tree plantation, rallies with in the neighborhood to make awareness about water conservation and energy conservation. Initially Environmental Studies were taught in the second year but after the implementation of CBCS, it's been incorporated with in the first semester curriculum. Hence, the implementation of this subject is to create awareness about environmental issues among students.

ELECTRICAL CIRCUITS AND NETWORKING (SEC)

- The scope of this subject is to provide an insight into the working and applications of electrical machines, transmission lines and modeling of various other systems. Also, it provides clear and concise exposure to the principles and applications of electrical circuits to solve complex networks in the field of electrical engineering.
- To know the basic electrical circuit parameters and their representation
- Volt-amp relationships for passive elements
- Knowledge of dependent and independent voltage and current sources
- To know the simple circuit reduction techniques having single source with series-parallel combinations
- To obtain source transformations
- Applications of star-delta transformation for network reduction and vice versa

BASIC INSTRUMENTATION (SEC)

- To understand the basic working principles of important electrical and electronic circuit components.
- Troubleshooting the laboratory equipment's.
- Develop the skill of simple electronic circuit fabrication and instrumentation.
- Graduates will be able to lead a successful career in industry, pursue higher study or entrepreneurial endeavour through application of domain specific knowledge in areas of microelectronics, embedded system design, analytical instrumentation and process control, Industrial Automation, power plant engineering and allied fields of Electronics and Instrumentation.
- Graduates will be able to perceive the feasibility and impact of engineering solutions in social, legal, environmental, economic and multi-disciplinary context.
- Graduates will be able to demonstrate professional and ethical responsibility and engage in life-long learning.



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DEPARTMENT OF CHEMISTRY

The department of chemistry follows Palamuru university curriculum. It offers skill enhancement courses for 3rd sem and 4th sem students.

1. Remedial methods for pollution, drinking water and soil fertility:

This paper was offered by Palamuru University as skill enhancement course for Sem III students. This paper creates awareness on harmful effects of pollution like ozone depletion, global warming and also precautions to control pollution. Students will be aware of quality and common treatments for private drinking water systems Students will acquire basic concepts of soil fertility like effects of PH, micro and macro nutrients on plants.

2. Chemistry of cosmetics and food processing:

This paper is offered by University as skill enhancement course for 4th sem students. From this course students acquire knowledge about chemicals used in cosmetics, food adulteration and their impact on human health.

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc




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DEPARTMENT OF MATHEMATICS

Department of mathematics of TSWRDC(W) affiliated to Palamuru university offers various courses at undergraduate level by following the syllabus framed by the university. Mathematics is one of the primitive basic sciences whose knowledge is very crucial not only in many applied subjects like Computer Science, Data Science, engineering sciences but also in allied basic sciences like statistics, physics, chemistry and biological sciences. Some of the cross cutting courses offered at our department are:

1. Logic and Sets (SEC – I): The logic and sets is one of the basic courses and it is applicable ubiquitously.
2. Theory of Equations (SEC – II): The knowledge of this theory is applicable in many situations in the science of chemistry for balancing the chemical equations, physics and almost all engineering sciences.
3. Number Theory (SEC – III): Mathematics is considered to be queen of all applied subjects and Number theory is considered to be queen of Mathematics and its basic knowledge is necessary to understand many advanced concepts in maths like algebra as well as its allied sciences like computer science etc.
4. Vector Calculus (SEC – IV): The Green's, Stokes and Gauss divergence theorems in vector calculus plays crucial role in physics. These are used for calculating the surface area of two dimensional curves and volume of solids and are also helpful in traversing in 1,2 and 3 dimensions at ease.
5. Algebra: The concepts of algebra are applicable in various fields like physics, astronomy, chemistry, economics, art and craft and modern and advanced sciences like data science, computer science etc.

Numerical analysis: The knowledge of numerical analysis is very much necessary in branches where experiments are performed and conclusions are to be drawn from that data. So this is applicable in statistics, physics, chemistry, computer science, data science, economics, commerce, population studies, genetics, zoological sciences etc.


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DEPARTMENT OF COMPUTER SCIENCE

List of Courses addressing Cross cutting Issues: A) Professional Ethics

S.No	Program Name	Semester	Name of The Course
1	All UG Programmes	I/II	AECC - basic computer skills
2	B. Sc Computer Science	III	SEC-1 - Python – I/ OperatingSystems-1
3	B. Sc Computer Science	IV	SEC-3 - Python – II/ OperatingSystems-2

AECC – BASIC COMPUTER SKILLS

Students will learn how Operating System is Important for Computer system

- Basic computer skills courses cover the most common usages of a computer, including a majority or all of the following: understanding the basic notions of computer manipulation.
- managing computer files, word processing,
- using spreadsheets and databases.
- creating presentations.
- finding information and communicating using computers.
- and being aware of social and ethical implications of Internet use.

Python

Students will learn how Operating System is Important for python programming

- understand and use variables.
- work with common Python data types like integers, floats, strings, characters, lists, dictionaries, as well as pandas Datagrams.
- use basic flow control, including for loops and conditionals.
- read data from text files.
- obtain basic summary statistics from data files.

Operating System

Students will learn how Operating System is Important for Computer System.

- To make aware of different types of Operating System and their services.
- To learn different process scheduling algorithms and synchronization techniques to achieve better performance of a computer system.
- To know virtual memory concepts.
- To learn secondary memory management



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DEPARTMENT OF STATISTICS

Department of statistics of TSWRDC(W) affiliated to Palamuru university offers various courses

At undergraduate level by following the syllabus framed by the university. Statistics is one of the primitive basic sciences whose knowledge is very crucial not in many applied subjects like computer science ,Data science , engineering sciences but also in allied basic sciences like physics ,chemistry,

Biological sciences. Some of the cross-cutting courses offered at our department are

1.Data Collection, Presentation and Interpretation: Basic concepts on population, sample, sampling unit, parameter, statistics, standard error, sample size and its determination. Sample design steps, selecting the problem and necessity of defining the problem, designing a questionnaire and a schedule for collecting data for a set of objectives under study with illustrated example. Methods for collecting primary and secondary data and their merits and demerits.

Graphical computation of data interpretation, diagrammatic computation of data and interpretation, classification and tabulation of data.

2.Data Scaling Techniques and Report Writing: Qualitative and Quantitative data, Measurement of scales, Scale Classification bases, important scaling techniques scale construction techniques. Developing Likert-type scales factor scales and cumulative scales their advantages and limitations. Interpretation and report writing.



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DEPARTMENT OF COMMERCE

Department of commerce incorporating the syllabus framed by Palamaru University annual academic curriculum. The Global Environmental sustainability themes are recognized as importance in Commerce education for UG students. To equip the student's gender sensitization, Environmental Studies, Computer skills are included in interdisciplinary areas. The followings are the topics related to Skill Enhancement Course and Generic Elective.

Paper SEC 1 a): PRINCIPLES OF INSURANCE

Insurance plays important role in the commerce context. The Principles of Insurance syllabus, designed for 2 credits in Semester III, serves as a basic concept in commerce education, offering students a comprehensive understanding of the fundamental concepts and principles that emphasizes on the insurance industry. The students will know various types of Insurance and opportunities in Insurance.

Paper SEC 2 a): PRACTICE OF LIFE INSURANCE

The syllabus is designed in Semester III on insurance products development and innovation within the life insurance industry. Students explore the various types of life insurance policies available, including term life, whole life, Endowment and General Life Insurance products and their terms and conditions.

Paper SEC3 (a): PRACTICE OF GENERAL INSURANCE

The Syllabus is designed with 2 credits in Semester IV. The syllabus begins by establishing a strong foundation in the fundamental principles of general insurance, various roles of insurance industry including risk assessment, underwriting, claims and Insurance Reserves.

Paper SEC4 (a): REGULATION OF INSURANCE BUSINESS

Regulation of Insurance Business syllabus is designed for 2 credits in Semester IV by introduction of the history of life and non-life insurance legislation in India, from pre- independence to post-independence era, including the process of nationalization and subsequent insurance reforms. The syllabus is framed with the concept of the free look period, grievance redressal mechanisms, and the role of key feature documents in informing policyholders about the terms and conditions of their insurance policies. The syllabus covers dispute resolution mechanisms, including the role of

insurance ombudsmen, solvency margin requirements, and regulations governing insurance investments.

Paper GE: a) BUSINESS ECONOMICS

Business Economics is designed in the syllabus for 4 credits in V Semester to acquire knowledge in Economics to know importance of Micro and Macroeconomics. The students gain a comprehensive understanding of Supply analysis, Theory of Consumer Behavior behavior, production decisions, and cost-revenue relationships, which are essential for analyzing and making informed decisions in various economic context.



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