

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU
COURSE OUTCOMES OF ENGLISH

Students who complete the English course emerge with the following knowledge and skills

- CO1: The students are able to read a variety of texts critically and proficiency to demonstrate in writing, analysis and interpretation of those texts.
- CO2: Able to demonstrate knowledge and comprehension of major texts and tradition of language and literature written in English as well as their social, cultural, theoretical and historical contexts.
- CO3: Able to write with proficiency in one or more creativity literary form [poetry, fiction, creative nonfiction]
- CO4: Able to speak clearly, effectively and appropriately in a public forum for a variety of audiences and purposes.
- CO5: Able to develop and innovate effective writing processes to compose texts for varied readers.
- CO6: They have ability to apply the skills and strategies of a successful reader.
- CO7: Students are able to write and speak effectively for a variety of purposes and audiences in a variety of genres and media.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU
COURSE OUTCOMES OF TELUGU

Students who complete the Telugu course emerge with the following knowledge and skills

Objectives

The subject provides Basic Foundation and the Importance of Telugu Literature to the students. The syllabus was framed in such a way that it bridges the literary and human values and create interest on literature to the students.

Following are the Course outcomes of the Telugu:

CO1: The student Learn Telugu to gain knowledge about the Indian Telugu Literature and culture.

CO2: To make the students learn telugu literary works of exponents ranging from Somanadha, Tikkana, Nannaya, Potana, Annamaya to contemporary writers.

CO3: To make the students are aware of History of Telugu from the pre Nannaya period (Before 1020AD to Modern Telugu Novelists) includes Unnava Lakshmi Narayana (Malapalli) and Bulusu Venkateswarlu (Bharatiya Tatva Sastram).

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU
COURSE OUTCOMES OF SANSKRIT

Students who complete the Sanskrit course emerge with the following knowledge and skills

CO1: To provide education in Sanskrit literature as a second language subject at U.G. Level But it generates the students to know the importance of the old Indian culture & heritage in a modern way of thoughts.

CO2: To attract the students to study the literature.

CO3: To encourage the students to develop the creativity and writing skills

CO4: To encourage the students to know the subject of Sanskrit is not only a traditional but also a moderator of new generation in all aspects.

CO5: To maintain and create interest to the students to know the ethical values in our Indian literature, Sanskrit is the mother of all languages.

CO6: Attains a common level basic knowledge in Grammar, classical and modern literature.

CO7: Attains spoken skills through conversational methods.

CO8: Attains basic knowledge in old Indian classical literature.

CO9: Understands the literature of Classical and modern age.

CO10: Able to understand modern aspects in traditional language as found in the classics of Valmiki, VyasaKalidasa etc.,

CO11: Able to know the greatness of Sanskrit drama and literature and to know the Qualities of prosody and modern drama

CO12: Able to express their views on subject in modern and different way.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU
COURSE OUTCOMES OF HINDI

Students who complete the Hindi Language emerge with the following knowledge and skills.

- CO1: Since Hindi being a National Language, the students are motivated to understand the importance and the need of language.
- CO2: A student acquires the ability in reading, writing and speaking skills.
- CO3: Students are able to understand the socio Economic conditions of farmers during the period of 18th and 19th century which was found in the writings of Prem Chand and how the people are reformed with the writings.
- CO4: A student learns positive aspects that help to build their personality.
- CO5: Able to understand how various religions were emerged in our country and how the society got influenced in the period of Bhakti period.
- CO6: Students are able to build up ethical values by studying Tulasi Das's great epic "Rama charithra Manasa".
- CO7: Students are able to speak the language confidently on different occasions.
- CO8: Able to understand the rituals, fine arts and different types of religious customs through literature.
- CO9: A student acquires knowledge to face competitive Examinations both in English and Hindi.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

UG program in B.A., History

COURSE OUTCOMES OF B.A., HISTORY

Students who complete the History course emerge with the following knowledge and skills

CO1: Critical Reading

CO2: Students able to distinguish primary and secondary sources.

CO3: Able to Understand and evaluate Historical ideas, arguments, and points of view.

CO4: Able to evaluate competing interpretations and multiple narratives of the past

CO5 : Able to demonstrate in written work and class discussions the ability to recognize and articulate the diversity of human experience, including ethnicity, race, language, gender, as well as political, economic, social, and cultural structures over time and space.

CO6: Able to produce their own historical analysis of documents and develop the ability to think critically and historically when discussing the past.

CO7: Able to demonstrate ethical use of sources and provide accurate and properly formatted citations in formal papers.

CO8: Able to assess primary historical evidence. Compile a bibliography.

CO9: Present clear and compelling arguments, based on critical analysis of diverse Historical sources, and effectively communicate their interpretations in written essays and/or other media.

CO10: Develop a research question and complete a well-supported piece of Historical writing about it.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

UG program in B.A., Economics

COURSE OUTCOMES OF B.A., ECONOMICS

Students who complete the Economics course emerge with the following knowledge and skills.

CO – 1: Understand the behavior of Indian and World economy.

CO – 2: Analyze macroeconomic policies including fiscal and monetary policies of India.

CO – 3: Determine economic variables including inflation, unemployment, poverty, GDP, Balance of Payments using statistical methods.

CO – 4: Understand the behavior of financial and money markets and perform cost-benefit analysis for making investment decisions.

CO - 5: Understand and demonstrate core micro-economic terms, concepts, and theories.

CO - 6: Able to differentiate between positive and normative statements.

CO - 7: Able to analyze data to solve complex economic problems.

CO - 8: Able to understand general economic concepts (supply & demand, comparative advantage, opportunity cost, etc.).

CO - 9: Able to understand micro-economic concepts (elasticity, monopoly, price discrimination, etc.).

CO - 10: Able to understand and demonstrate core macro-economic terms, concepts, and theories.

CO - 11: Able to understand Public Debt, Tax System and International Trade.

CO - 12: Able to understand Labour Economics, Industrial Economics and Industrial Management.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

UG program in B.A., Political Science

COURSE OUTCOMES OF B.A., POLITICAL SCIENCE

Students who complete the Political Science course emerge with the following knowledge and skills.

CO1: Demonstrate an understanding of fundamental political processes, institutions, behavior and ideas; and familiarity with major theories, methods, and concepts in Political Science.

CO2: Demonstrate proficiency in thinking systematically about political interactions in national, global and international contexts.

CO3: Demonstrate proficiency in thinking systematically about the ethical dimensions of politics.

CO4: Write effectively, engage in intellectually grounded oral debate, and form and express cogent arguments.

CO5: Synthesize, analyze and critically evaluate major arguments in the discipline.

CO6: Assess original and secondary sources of argumentation and evidence and apply scholarly findings to new situations.

CO7: Demonstrate continuing engagement in public affairs on local, national, and/or international levels.

CO8: Identify key figures and articulate important ideas of political theory, and apply them to current trends and events in politics.

CO9: Demonstrate competent knowledge of world geography, comparative political systems, and the principles of international relations.

CO10: Articulate Constitutional principles and apply them to the institutions and challenges in current Indian politics.

CO11: Understand the basic concepts of Indian democracy and public administration.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU
UG program in B. Com (General)

PROGRAMME OBJECTIVES AND OUTCOMES OF B.COM., GENERAL

Program Objectives

- PO1:** To make the student aware and gain a thorough understanding of fundamentals of accounting principles, auditing, Finance etc.
- PO2:** To equip the students in commerce and finance focused curriculum and train in specializations and provide practical exposures which would equip the student to face the modern-day challenges in commerce and business.
- PO3:** The offer value based and job oriented course ensures that students are trained into up-to-date. In advanced accounting courses beyond the introductory level, affective development will also progress to the valuing and organization levels.
- PO4:** To make the student critical think in relation to business and commerce related issues for effective decision makers in business and commerce.

Program Specific Outcomes:

- PSO1:** At the end of the course the students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Students will be able to demonstrate knowledge in setting up a computerized set of accounting books.
- PSO2:** Students will be able to learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- PSO3:** Students will also learn relevant managerial thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, auditing and marketing.
- PSO4:** Students will be able to recognize features and roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.
- PSO5:** Students will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
- PSO6:** Learners will acquire the skills like effective communication, decision making, problem solving in day to day business affairs and acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU
UG program in B. Com (Computer Applications)

PROGRAMME OBJECTIVES AND OUTCOMES OF B.COM., COMPUTER APPLICATIONS

Program Objectives

- PO1: To provide wide knowledge both in commerce and Computer software applications.
- PO2: To equip knowledge in various accounting procedures and to enables the students to gain theoretical and problem solving ability,
- PO3: The students will be trained in Business software applications, Tally etc to enable the students to work independently.
- PO4: To provide both theoretical as well as good practical exposures to the students in the relevant areas to meet the industries expectations.

Program Specific Outcomes

- PSO1: At the end of the Program the student learns Accounting, Banking, Cost Accounting, Management Accounting, Computer Language, Software and Software application in the Commerce.
- PSO2: The student will be able to do office atomization with computers and computer software application and gains knowledge and understanding of a range of contexts in which accounting operates.
- PSO3: Gains knowledge and understanding of the current technical and Alternative languages and practices of Accounting for applying knowledge and skills in accounting function.
- PSO4: Will demonstrate knowledge and skills for Banking , Financial services and insurance Functions.
- PSO5: Will respond to the global requirements and responds to the opportunities and challenges in accounting and Financial service sector.

SKSD Mahilakalasala UG & PG (Autonomous), Tanuku

UG program in B.Sc (Mathematics)

COURSE OUTCOMES OF B.SC., MATHEMATICS

Students who complete the Mathematics course will be able to:

CO1:- By the end of this course students should be able to make mathematical models.

CO2:- This course improve students ability to understand some mathematical tools and be able to solve issues related to mathes.

CO3:- Develops confidence to face any competitive examination and also pursue further studies.

CO4:- Students will be skilled in problem solving, critical thinking and analytical reasoning as applied to scientific problems.

CO5:- Students will be able to explore new areas of research in Mathematics, Physics, chemistry. Statistics and computer science.

CO6:- Provide a systematic understanding of the concepts and theories of Mathematics and their applications in the real life – to an advanced level and enhance career prospects in a huge array of fields.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

UG program in B.Sc (Physics)

COURSE OUTCOMES OF B.SC., PHYSICS

Students who complete the Physics course will be able to:

- CO1: Understand basic mechanics and properties of Physics and will be able to solve the equations of motion for any mechanical system, rigid bodies.
- CO2: Will be able to apply the laws of simple Harmonic Motion of various oscillating systems.
- CO3: Attains knowledge about the production of ultrasonic and their applications.
- CO4: Applied the principles of interference and diffraction to waves that pass through a single or double slit or through a diffraction grating.
- CO5: Able to develop the knowledge about lasers and their applications and known about the various advantages of an optical fiber in the communication system and various types of optical fibers.
- CO6: Gains knowledge about the principle and applications of holography, the thermodynamic potentials and recognizes the most appropriate potential for application to a particular problem.
- CO7: Known about the laws of their dynamics in various forms and their physical significance.
- CO8: Understand range of topics in almost all area of physics including electricity, electromagnetics quantum mechanics, solid state physics, computational physics, electronic etc...
- CO9: Development their experimental and data analysis skills through a wide range of experiments in the practical laboratories.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

UG program in B. Sc (Chemistry)

COURSE OUTCOMES OF B.SC., CHEMISTRY

Students who complete the Chemistry course emerge with the following knowledge and skills

Chemistry is to provide the key knowledge base and laboratory resources to prepare students for careers as professionals in the field of chemistry.

CO1: Students will have a firm foundation in the fundamentals and application of current chemical and scientific theories including those in Analytical, Inorganic, Organic and Physical Chemistries.

CO2: Students will be able to design and carry out scientific experiments as well as accurately record and analyze the results of such experiments.

CO3: Students will be skilled in problem solving, critical thinking and analytical reasoning as applied to scientific problems.

CO4: Students will be able to clearly communicate the results of scientific work in oral, written and electronic formats to both scientists and the public at large.

CO5: Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.

CO6: Students will be able to handle chemicals, environmental issues and key issues in hazardous nature of chemicals and its effects.

CO7: Recognize the basic practical skills for the analysis of chemical compounds.

CO8: Write comprehensive reports on experiments.

CO9: Operate instrument such as melting point apparatus.

CO10: Ability to work independently as well as within a team.

SKSD MAHILAKALASALA UG & PG (Autonomous), Tanuku

UG program in B. Sc (Botany)

COURSE OUTCOMES OF B.SC., BOTANY

Students who complete the Botany course emerge with the following knowledge and skills

At the end of the course the student is:

CO1: Able to understand Microbial Diversity Algae and Fungi

CO2: Able to understand Diversity of Archaeogoniatates and Anatomy

CO3: Able to understand Plant Taxonomy

CO4: Able to understand Embryology in Plants

CO5: Able to understand Plant Physiology and Metabolism

CO6: Able to understand Cell Biology in Plants

CO7: Able to understand Plant Genetics

CO8: Able to understand Plant Breeding Technique

CO9: Able to understand Plant Ecology and Phytogeography

CO10: Able to understand Plant Tissue Culture and Plant Biotechnology

CO11: Able to understand Ethno botany and Medicinal Botany

CO12: Able to understand Pharmacognosy and Photochemistry

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

UG program in B.Sc (Zoology)

COURSE OUTCOMES OF B.SC., ZOOLOGY

Students after completing the Zoology course emerge with the following knowledge and skills

CO-1: Able to understand General taxonomic rules on animal classification.

CO-2: Able to understand the phylum coelenterate and its polymorphism.

CO-3: Able to understand the parental care in Amphibia and its significance.

CO-4: Able to understand the Migration in Fishes.

CO-5: Able to understand the Flight adaptations and modifications in birds.

CO-6: Able to understand the major carps with respect to economic importance.

CO-7: Able to understand the ornamental fishes with respect to Economic importance.

CO-8: Able to understand the Pearl oysters with reference to Pearl formation.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

UG program in B. Sc., (Microbiology)

COURSE OUTCOMES OF B.SC., MICROBIOLOGY

Students who complete the Microbiology course emerge with the following knowledge and skills

- CO1: Able to gain knowledge about the contributions of scientists in Microbiology.
- CO2: Able to gain knowledge about the classification of microorganisms.
- CO3: Able to gain knowledge about the general characteristics of bacteria, algae, fungi and protozoa.
- CO4: Able to gain knowledge about a cellular organisms i.e.viruses.
- CO5: Able to understand the working principles of microscopes.
- CO6: Able to understand and gain the knowledge about performing staining techniques and sterilization techniques which are performed in Microbiology laboratories.
- CO7: Able to understand pure culture isolation techniques and preservation of microbial cultures for different research practices.
- CO8: Able to understand the working principles and gain knowledge about colorimetry, chromatography like techniques which are generally used in pharmaceutical Microbiology laboratories.
- CO9: Able to understand gene cloning methods and gain knowledge about genetic engineering technology.
- CO10: Able to understand immunological techniques like ELISA, RIA, CFT which are generally performed in diagnostic laboratories.
- CO11: Able to understand action of antibiotics and vaccines.
- CO12: Able to understand different water microbiological examinations.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

UG program in B.Sc., Biochemistry

COURSE OUTCOMES OF B.SC., BIOCHEMISTRY

Students who complete the Biochemistry course emerge with the following knowledge and skills

- CO1.** Students will be able to apply the scientific method to questions in Biochemistry by formulating testable hypotheses, gathering data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses.
- CO2.** Students will be able to present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists.
- CO3.** Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.
- CO4.** Students will be able to do clinical biochemistry studies for the diagnosis of the diseases.
- CO5.** Students will be able to gain knowledge about bio safety laboratory management and quality control management in Microbiology and biochemistry laboratories.
- CO6.** Students will be able to understand the physiology, genetics and metabolic functions of human beings.
- PO7.** Students will be able to explicate the ecological interconnectedness of microbial life on earth by tracing energy and nutrient flows through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.
- PO9.** Students will be able to demonstrate proficiency in the experimental techniques and methods of analysis appropriate for their area of specialization in Biochemistry.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

UG PROGRAM IN B. SC (COMPUTER SCIENCE)

COURSE OUTCOMES OF B.SC., COMPUTER SCIENCE

Students who complete the Computer Science course will emerge with the following knowledge and skills:

CO1 Mathematics and Theory: Students will be able to apply mathematical and computing theoretical concepts in solution of common computing applications, such as computing the order of an algorithm.

CO2 Programming: Students will be able to complete successfully be able to program small-to-mid-size programs on their own. Sufficient programming skills will require use of good practice, e.g., good variable names, good use of computational units, appropriate commenting strategies.

CO3 Systems Design and Engineering: Students will be able to use appropriately system design notations and apply system design engineering process in order to design, plan, and implement software systems.

CO4 Depth of Knowledge : In a self-selected area of depth in Computing, students will demonstrate a depth of knowledge appropriate to graduate study and/or lifelong learning in that area. Students should be able to read for understanding materials in that area beyond those assigned in coursework.

CO5 Preparation for Career and/or Graduate Study: Students will be prepared for a career in an information technology oriented business or industry, or for graduate study in computer science or other scientific or technical fields.

CO6 Communication: Students will be able to communicate in written and oral forms in such a way as to demonstrate their ability to present information clearly, logically, and critically.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

UG program in B. Sc (Statistics)

COURSE OUTCOMES OF B.SC., STATISTICS

Students who complete the Statistics course will emerge with the following knowledge and skills

- CO1: The student will become statistically and numerically literate. In particular, graduates will recognize the importance and value of statistical thinking, training, and approach to problem solving, on a diverse variety of disciplines
- CO2: Student will be able to solve and interpolate statistically.
- CO3: Student acquires the knowledge to read statistical literature of various types, including survey articles, scholarly books, and online sources independently.
- CO4: Able to solve and have the versatility to work effectively in a broad range of analytic, scientific, government, financial, health, technical and other positions.
- CO5: Able to understand Statistics, an appreciation of how its various sub-disciplines are related, the ability to use techniques from different areas, and an **in-depth knowledge** about topics chosen from those offered through the department

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

PG program in M. Sc (Organic Chemistry)

COURSE OUTCOMES OF M.SC., ORGANIC CHEMISTRY

Students who complete the Organic Chemistry course will have the following knowledge and skills

Course Objectives

Describes synthesis, reaction mechanism, spectral analysis of carbon compounds (organic compounds) including natural products.

CO1: To study of synthetic reactions like oxidation, reduction, re-arrangements and other synthetic reactions involving organic metallic compounds.

CO2: To study about the mechanism of various organic reactions including pericyclic Reactions.

CO3: To study of analysis of organic compounds by using UV, IR, Mass, NMR spectra

CO4: Study of structure and synthesis of some natural products like alkaloids, Terpinoids, Steroids and flavanoids with atleast four examples for each category.

At the end of the course the students is able

CSO1: Know and recall the fundamental principles of organic chemistry that include chemical bonding, nomenclature, structural isomerism, stereochemistry, chemical reactions & mechanism.

CSO2: Name the functional groups and different classes of organic compounds.

CSO3: Recognize the basic practical skills for the synthesis and analysis of organic compounds.

CSO4: Predict the reactivity of an organic compound from its structure.

CSO5: Develop basic skills for the multi-step synthesis of organic compounds.

CSO6: Justify a reasonable mechanism for a chemical reaction.

CSO7: Write comprehensive reports on experiments such as crystallization, distillation, synthesis, hydrogenation and filtration processes.

CSO8: Assemble fractional and simple distillation apparatus, vacuum filtration and refluxing apparatus.

CSO9: Operate instrument such as melting point apparatus and able to separate different liquids based on their boiling points and miscibility.

CSO10: Illustrate chemical structures stereochemistry and chemical reactions.

CSO11: Ability to work independently as well as within a team.

SKSD MAHILAKALASALA UG & PG (AUTONOMOUS), TANUKU

PG program in M. Sc (Microbiology)

COURSE OUTCOMES OF M.SC., MICROBIOLOGY

Students who complete the Microbiology course will have the following knowledge and skills

CO1: Able to gain knowledge about the Microbiology and related aspects.

CO2: Able to gain knowledge about various microbial groups. .

CO3: Able to gain knowledge about the normal and special groups of bacteria.

CO4: Able to gain knowledge about virology.

CO5: Able to understand the different microbial techniques.

CO6: Able to understand and gain the knowledge about performing staining techniques and sterilization techniques which are performed in Microbiology laboratories.

CO7: Able to understand pure culture isolation techniques and preservation of microbial cultures for different research practices.

CO8: Able to understand the working principles and gain knowledge about centrifugation, colorimetry, different types of chromatography techniques which are generally used in pharmaceutical Microbiology laboratories.

CO9: Able to understand radio isotopic tracers , gene cloning methods and gain knowledge about genetic engineering technology.

CO10: Able to understand immunological techniques like ELISA, RIA, CFT which are generally performed in diagnostic laboratories.

CO11: Able to gain knowledge about Bio-informatics and Bio-statistics which are relevant to our Microbiology research works.

CO12: Able to understand different water microbiological examinations.

CO13: Able to gain knowledge about Agricultural, Environmental and Industrial Microbiological methods in applicable manner.

CO14: Able to gain knowledge about Molecular mechanisms in related to Research works.