

PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, COURSE OUTCOMES

Mechanism of Communication:

The College has clearly stated learning outcomes of the Programs and Courses. The following mechanism is followed by the institution to communicate the learning outcomes to the teachers and students.

- Hard Copy of syllabi and Learning Outcomes are available in the departments for ready reference to the teachers and students
- Learning Outcomes of the Programs and Courses are displayed on the walls outside each department
- Soft Copy of Curriculum and Learning Outcomes of Programs and Courses are also uploaded to the Institution website for reference
- The importance of the learning outcomes has been communicated to the teachers in every IQAC Meeting and College Committee Meeting.
- The students are also made aware of the same through Tutorial Meetings.

Course outcomes for all Courses:

Department of Telugu	
Course Outcomes	
Courses	Outcomes
Part- I Telugu Paper I	Obtaining more information about one's culture and tradition; encouraging creative writing and developing self-confidence.
Part- I Telugu Paper II	Aiming at enriching human excellence; increasing the level of comprehension and exercising communal harmony.

Department of Hindi

Course Outcomes

Courses	Outcomes
PART-I Hindi Paper I	Students can work anywhere in India, as they know Hindi - Our National Language. In many other countries also, Hindi is used as an Official Language as well as second Language. So they can easily be employed easily in those countries also.
	As they are Practicing Translation from Hindi to English and English to Hindi and some other Languages as well, they can become Translators in many Central Govt Offices. They are learning Poetry

Paper II	and Grammar -so they can become creative writers or poets are authors.
	By Reading and observing Drama's and one act plays they can become good actors. By having good communication skills and command over language one can becomes good speaker and they can travel throughout India without any language fear. Having good command over particular language one can present Himself in better way. Learning Hindi in non-hindi region definitely one can achieve anything.

Department of English	
Course Outcomes	
Courses	Outcomes
Part II: English	On successful completion of the paper, the students are introduced to communicative skills, to define, classify, and understand the methods of communication, to improve their LSRW skills, to enable them to practice those skills in their daily life by identifying instances of communication in the circumstances of their own.
Social History of England	To familiarize students with the main events, conflicts, inventions and rich history of Great Britain.
History of English Literature	To comprehend literary texts of ancient and modern literature written by great writers of English.
Literary Forms	To become technically strong in different genres like Lyric, Ballad, Elegy, Tragedy, Comedy, tragicomedy etc.
Literary Criticism	To acquire good knowledge with regard to the analysis of critical frameworks and methodologies for better interpretation of literature.
English Literature for Competitive Examinations	To be acquainted with glossary of literary terms.

Department of Commerce	
B. Com	
Programme Outcome	This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc.,to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Selling Manager, Over all Administration abilities of the Company.

Programme Specific Outcome	The students should possess the knowledge, skills and attitudes during the end of the B.com degree course. By virtue of the training they can become an Manager, Accountant , Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government jobs etc.,
Course	Outcomes
Business organisation and Office Management.	On successful completion of this subject the students acquires the knowledge about the various types of business organizations, office management and related.
Principles Of Accountancy	To enable the students to learn principles and concepts of Accountancy.
Financial accounting	On successful completion of this course the student are enabled with the Knowledge in the practical applications of accounting.
Accounting	Accounting, and allied aspects of accounting. After the successful completion of the course the student should have a through knowledge on the accounting practice prevailing in partnership firms and other allied aspects.
Principles of Marketing	On successful completion of this course the students should have the practical knowledge and he tactics in the marketing.
Bussiness Law	On successful completion of this course, the student should be well versed in basic provisions regarding legal frame work governing the business world.
Management Accounting	This course aims to develop an understanding of the conceptual framework of Management Accounting. After the successful completion of the course the student acquires the knowledge in the Management Accounting Techniques in business decision making.
Cost Accounting	To keep the students conversant with the ever – enlarging frontiers of Cost Accounting knowledge.
Banking Law theory and Practice	To enlighten the students' knowledge on Banking Regulation Acts. After the successful completion of the course the student should have a through knowledge on Indian Banking System and Acts pertaining to it.
Corporate Accounting	This course aims to enlighten the students on the accounting procedures followed by the Companies. To enable the students to be aware on the Corporate Accounting in conformity with the provision of the Companies Act.
Income-Tax	This course aims to provide an in-depth knowledge on the provisions of Income Tax. To familiarize the students with recent amendments in Income-tax.

Principles of Auditing	On successful completion of this course, the student should be well versed in the fundamental concepts of Auditing.
Entrepreneurial Development	On successful completion of this course, the student should be well versed in Concept relating to entrepreneur, Knowledge in the finance institution, project report incentives and subsidies.

Department of Computer Application

Programme Outcome	Students will establish themselves as effective professionals by solving real problems through the use of computer science knowledge and with attention to team work, effective communication, critical thinking and problem solving skills. Students will develop professional skills that prepare them for immediate employment and for life-long learning in advanced areas of computer science and related fields.
Programme Specific Outcome	The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, application program, database , graphics and networking for efficient design of computer-based systems of varying complexity.
Course Outcomes	
Courses	Outcomes
Computing Fundamentals and C Programming	On successful completion of this subject the students have the programming ability in C Language
Digital Fundamentals and Architecture	On successful completion of this subject the students should have Knowledge on Digital circuits, Microprocessor architecture, and Interfacing of various components.
C++ Programming	To inculcate knowledge on Object-oriented programming concepts using C++.
System Software and Operating System	Enable the student to get sufficient knowledge on various system resources
Java Programming	To inculcate knowledge on Java Programming concepts

DBMS & Oracle	To inculcate knowledge on RDBMS concepts and Programming with Oracle.
Graphics & Multimedia	To inculcate knowledge on Graphics & Multimedia concepts.
Computer Networks	To inculcate knowledge on Networking concepts and technologies like wireless, broadband and Bluetooth.
E-Commerce	On Successful Completion of this subject the students should have: - E-Commerce , E-Market , EDI , Business Strategies etc.,
Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.

Department of Computer Science

Programme Outcome	An ability to apply knowledge of computing and mathematics appropriate to the program's student outcomes and to the discipline. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs. An ability to function effectively on teams to accomplish a common goal. An understanding of professional, ethical, legal, security and social issues and responsibilities. An ability to communicate effectively with a wide range of audiences. An ability to analyze the local and global impact of computing on individuals, organizations, and society. Recognition of the need for and an ability to engage in continuing professional development. An ability to use current techniques, skills, and tools necessary for computing practice. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices. An ability to apply design and development principles in the construction of software systems of varying complexity.
Programme Specific Outcome	Ability to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all computer science courses in particular to identify, formulate and solve real life complex engineering problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations. Ability to provide socially acceptable technical solutions to complex computer science engineering problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice. Ability to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team. Ability to comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies.

Course Outcomes	
Course	Outcomes
Computing Fundamentals and C Programming	On successful completion of this subject the students have the programming ability in C Language
Cobol Programming	On successful completion of this subject the students should have : - Writing programs for business applications - Concepts of file handling in programming languages
Digital Fundamentals And Architecture	On successful completion of this subject the students should have Knowledge on Digital circuits, Microprocessor architecture, and Interfacing of various components.
Data Structures	To design and implementation of various basic and advanced data structures. To introduce various techniques for representation of the data in the real world. and to develop application using data structures.
C++ Programming	To inculcate knowledge on Object-oriented programming concepts using C++.
Software Engineering & Software Project Management	To introduce software project management and to describe its distinctive characteristics and to discuss project planning and the planning process and show how graphical schedule representations are used by project management and the risk management process
System Software And Operating System	Enable the student to get sufficient knowledge on various system resources.
Java Programming	To inculcate knowledge on Java Programming concepts
Visual programming- Visual Basic & Visual C++	To introduce the concepts of visual programming. To introduce GUI programming using Microsoft foundation classes. To enable the students to develop programs and simple application using Visual C++.
RDBMS & Oracle	To inculcate knowledge on RDBMS concepts and Programming with Oracle.
Graphics & Multimedia	To inculcate knowledge on Graphics & Multimedia concepts.
Computer Networks	To inculcate knowledge on Networking concepts and technologies like wireless, broadband and Bluetooth.
Software Testing	To inculcate knowledge on Software testing concepts
Web Technology	To inculcate knowledge in web technological concepts and functioning internet
Data Mining	On Successful Completion of this subject the students should have knowledge on Data mining Concepts
Project Work	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.

Department: Mathematics with Computer Application	
Programme Outcome	B.Sc graduates apply their broad knowledge of science across a range of fields, with in-depth knowledge in at least one area of study, while demonstrating an understanding of the local and global contexts in which science is practiced.
	Articulate the methods of science and explain why current scientific knowledge is both contestable and testable by further inquiry. Apply appropriate methods of research, investigation and design, to solve problems in science.
Programme Specific Outcome	Mathematics majors at SNMV will be able to apply critical thinking skills to solve problems that can be modeled mathematically, to critically interpret numerical and graphical data, to read and construct mathematical arguments and proofs, to use computer technology appropriately to solve problems and to promote understanding, to apply mathematical knowledge to a career related to mathematical sciences or in post - baccalaureate studies.
Course Outcomes	
Course	Outcomes
Classical Algebra	To inculcate knowledge on knows the selected aspects of classical algebraic structures.
Calculus	To inculcate knowledge on the ability to find the effects of changing conditions on a system.
Statistics	To inculcate knowledge on demonstrate understanding of basic concepts of probability and statistics embedded in their course.
Analytical Geometry	To inculcate knowledge on solve problems in analytic geometry and able to find appropriate solutions for given problems.
Programming in C	On successful completion of this subject the students have the programming ability in C Language
Trigonometry, Vector calculus & Fourier Series	To inculcate knowledge on triangle properties, vector calculus and Fourier series basic concepts.
Statics	To inculcate knowledge on fixed particle properties and proofs.
Programming in C++	To inculcate knowledge on Object-oriented programming concepts using C++.
Accountancy	To inculcate knowledge on basic on journals, ledgers and balance sheet.
Operations Research	To inculcate knowledge on maximize the profit and minimize the cost in every place.
Differential Equation	To inculcate knowledge on solving of first and second order algebraic

& Laplace Transforms	equations and basic information on Laplace transforms.
Dynamics	To inculcate knowledge on moving particle properties and proofs.
RDBMS Oracle	To inculcate knowledge on RDBMS concepts and Programming with Oracle.
Real Analysis	To inculcate knowledge on real numbers and their properties & proofs.
Modern Algebra	To inculcate knowledge on algebraic equations and their relations with properties.
Visual Basic	To inculcate knowledge on developing GUI interfaces programming skills using Visual Basic
Discrete Mathematics	To inculcate knowledge on understand the notation of mathematical thinking, mathematical proofs, and algorithmic thinking and able to apply them in problem solving.
Complex Analysis	To inculcate knowledge on complex numbers and their properties & proofs.
Internet & Java	To inculcate knowledge on basics of internet, languages using in internet and how java used develop internet contents
Numerical Methods	To inculcate knowledge on algebraic equations solved by Numerical Methods.
Fuzzy Logic & Neural Networks	To inculcate knowledge on basic information's of Fuzzy logic and Neural Networks.

Department of Physics	
Programme Outcome	Physics deals with a wide variety of systems, certain theories are used by all physicists. Each of these theories were experimentally tested numerous times and found to be an adequate approximation of nature. Physics uses mathematics to organize and formulate experimental results. From those results, precise or estimated solutions, quantitative results from which new predictions can be made and experimentally confirmed or negated. The results from physics experiments are numerical measurements. Technologies based on mathematics, like computation have made computational physics an active area of research.
Programme Specific Outcome	The theory of classical mechanics(it is a branch of physics) accurately describes the motion of objects, provided they are much larger than atoms and moving at much less than the speed of light. These theories continue to be areas of active research today

Course Outcomes	
Courses	Outcomes

Mechanics, Properties of Matter and Sound	To gain the knowledge the students in order to
	Learn motion of bodies and sound waves
	Acquire basic knowledge of mechanics, properties of matter and gravitation
	Know how to apply the conservation of rotational motion
Heat and Thermodynamics	To aim is to provide the students
	To understand the principle of calorimetry
	Understand the basic principle and laws of Thermodynamics
	Understand the concepts of Entropy
Optics	To provide a good foundation in optics
	To provide a knowledge of the behaviour of light
	To inspire interest for the knowledge of concepts in physical and geometrical physics
Atomic Physics and Spectroscopy	To provide a detailed study of atom
	To learn the impact of magnetic fields in spectra
	To learn the behaviour of atom in various states
	To provide a knowledge of the application of observed theories
Electronics	To acquire knowledge and apply it to various electronically instruments
	To apply the development of the electronic instruments
	To motivate the students to apply the principles of electronics in their day-to-day life.
Electricity and Magnetism	To gain knowledge about the electrical energies in order to
	Learn motion of charges
	Acquire basic knowledge of magnetic properties
	Know about the alternating current and its circuits
	Get a depth knowledge about electricity and magnetism
Digital and Microprocessor	To give description for the students in order to
	To give basic idea to operate the device
	Learn the logic gates
	Acquire basic knowledge of binary addition
	Understand the action and application of counters
	Get a deep knowledge of various memories used in computer circuits
Quantum Mechanics and Relativity	To acquire knowledge and apply it to various physical problems
	To apply the developed problem solving ability
	To motivate the students to apply Schrodinger equation or solving problems in Wave mechanics, Nuclear physics etc.,
Nuclear Physics	To acquire knowledge and apply it
	Study of the structure of nucleus
	Know the formation of nucleus and their binding energy

To motivate the students and analyze the energy released by the nucleus during the fission and fusion process

Department of Chemistry	
Programme Outcome	Students will demonstrate an understanding of major concepts in all disciplines of chemistry.
	Students will employ critical thinking and the scientific method to design, carry out, record and analyze the results of chemical experiments and get an awareness of the impact of chemistry on the environment, society, and other cultures outside the scientific community.
Programme Specific Outcome	The ability to explain chemical nomenclature, structure, reactivity, and function in their specific field of chemistry. The design and execution of the experiment should demonstrate an understanding of good laboratory and the proper handling of chemical waste streams and also explain how the applications of Chemistry relates to the real world.
Course Outcomes	
Course	Outcomes
Chemistry Paper-I	To enable the students to learn the basic functions, structures and biological importance of lifeless chemical compounds
Core Practical-I	Student enable to understand the Semi Micro analysis of cations and anions
Chemistry Paper-II	To acquaint knowledge on Aromaticity, thermodynamics and coordination chemistry, Bonding in Metals.
Core Practical- II	Students will gain an understanding of methods of analysis related to chemical analysis goals such as detection of elements.
Chemistry Paper-III	Enable the student to get understand the laws of thermodynamics, Photo chemistry, Coordination chemistry and carbo hydrates.
Chemistry Paper-IV	To enable the students to learn about the solvent extraction principles and chromatography and synthesis of drugs.
Core Practical-III & IV	Synthesis of Organic Compounds, Conductometric, Colorimetry, identification of Functional Group.

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Department of Botony

Programme Outcome	Students will demonstrate an understanding of major concepts in all disciplines of Botony.
	Students will employ critical thinking and the scientific method to design, carry out, record and analyze the results of Botanical experiments and get an awareness of the impact of Botony on the environment, society, and other cultures outside the scientific community.

Programme Specific Outcome	The ability to explain Botonical nomenclature, structure, reactivity, and function in their specific field of Botony. The design and execution of the experiment should demonstrate an understanding of good laboratory and the proper handling of Botony waste streams and also explain how the applications of Botony relates to the real world.
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Course Outcomes

Course	Outcomes
Botony Paper-I	To enable the students to learn the basic Characteristics of Lower plants.
Core Practical-I	Student enable to understand the structure of the lower plants and their anatomy.
Botony Paper-II	To acquaint knowledge on plant classification systems, various plant families and Medicinal plants.
Core Practical- II	Students will gain an understanding of Identifying and classifying plants and medicinal usage of Plants.
Botony Paper-III	Enable the student to get understand the cell structure, Functions of Cell Organales and DNA structures.
Botony Paper-IV	To enable the students to learn about the Basic Concepts of Eco systems and Plant Biodiversity .
Core Practical-III & IV	Students will Understand Cell division and structure of eco system.

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Program Outcomes of all the programs are identified at the National Level by the concerned accrediting agency. Before this process, the educational institution inculcates certain qualities among the stakeholders.

Course Outcomes:

The course outcomes help the stakeholders to manage the resources effectively to the maximum extent. This creates path to improve the processes continually.

Program Outcomes:

For every degree program, expectations are listed out by the institution under the Program Outcomes. This enables the stakeholders to identify and analyze complex problems. They also learn to design solutions for problems that meet the specified needs with appropriate consideration for the cultural, societal and environmental well being. They learn to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions. This is followed by modern tool usage, which they select and apply with an understanding of the limitations. They apply reasoning and understand the impact of the solutions in societal and environmental context. They learn to apply ethical principles and become committed to professional ethics and their responsibilities. They realize that individual and team work function effectively in multidisciplinary settings. They learn to communicate effectively with society and they are able to comprehend and write effective reports and design documentation. They also make effective presentations and give and receive clear instructions. They understand the importance of critical thinking, social interaction, effective citizenship, ethics and environment and sustainability. Ultimately, they acquire the ability to engage in independent and life-long learning.

Program Specific Outcomes:

The stakeholders understand the nature and basic concepts of ecology. They analyze the relationship between human beings and nature.

Based on these outcomes, the stakeholders learn goal-setting, problem solving techniques and decision making. The institution evaluates the stakeholders as Class Toppers, University Rank Holders and Best Outgoing Students. They are recognized and awarded during the Annual Day function by giving them Certificates and Mementos. Gold Medals are awarded to the University

First Rank holders and Silver Medals to the remaining rank holders.

The Best Outgoing Students are evaluated on the basis of five criteria: Academic Performance, Attendance, Behaviour inside the class room, Behaviour on the campus and Extracurricular activities.

The program outcomes and program specific outcomes are measured by conducting class test after the completion of each unit, and by conducting exams. The attainment of students is also measured by keeping surprise test and asking spontaneous questions during the lecture.