

GOVERNMENT DEGREE COLLEGE, LUXITTIPET

DIST: MANCHERIAL

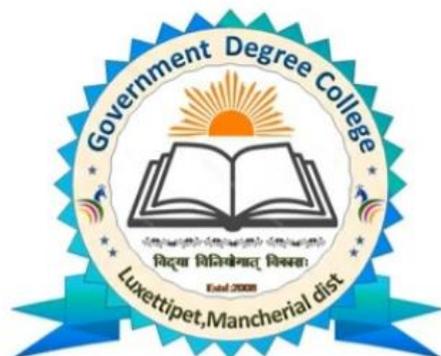


COURSE OUTCOMES

2.6.1

GOVERNMENT DEGREE COLLEGE, LUXITTIPET

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DEPARTMENT OF BOTANY

COURSE OUTCOMES

2.6.1

**GOVERNMENT DEGREE COLLEGE
LUXETTIPET
COURSE OUTCOMES OF BOTANY**

Hallmark Attributes of a Botany Graduate

Hallmark attributes of botany graduate under the outcome-based teaching learning framework may encompass the following:

- **Core competency:** The botany graduates are expected to know the fundamental concepts of botany and plant science. These fundamental concepts would reflect the latest understanding of the field, and therefore, are dynamic in nature and require frequent and time-bound revisions.
- **Communication skills:** Botany graduates are expected to possess minimum standards of communication skills expected of a science graduate in the country. They are expected to read and understand documents with in-depth analyses and logical arguments. Graduates are expected to be well-versed in speaking and communicating their idea/finding/concepts to wider audience
- **Critical thinking:** Botany graduates are expected to know basics of cognitive biases, mental models, logical fallacies, scientific methodology and construct cogent scientific arguments.
- **Psychological skills:** Graduates are expected to possess basic psychological skills required to face the world at large, as well as the skills to deal with individuals and students of various sociocultural, economic and educational levels. Psychological skills may include feedback loops, self-compassion, UGC DOCUMENT ON LOCF BOTANY 9 self-reflection, goal-setting, interpersonal relationships, and emotional management.
- **Problem-solving:** Graduates are expected to be equipped with problem solving philosophical approaches that are pertinent across the disciplines; Occam's Razor for instance.
- **Analytical reasoning:** Graduates are expected to formulate cogent arguments and spot logical flaws, inconsistencies, circular reasoning etc in fallacious arguments.
- **Research-skills:** Graduates are expected to be keenly observant about what is going on in the natural surroundings to awake their curiosity. Graduates are expected to design a scientific experiment through statistical hypothesis testing and other a priori reasoning including logical deduction.
- **Teamwork:** Graduates are expected to be team players, with productive corporations involving members from diverse socio-cultural backgrounds.

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- **Digital Literacy:** Graduates are expected to be digitally literate for them to enroll and increase their core competency via e-learning resources such as MOOC and other digital tools for lifelong learning. Graduates should be able to spot data fabrication and fake news by applying rational skepticism and analytical reasoning.
- **Moral and ethical awareness:** Graduates are expected to be responsible citizens of India and be aware of the moral and ethical baseline of the country and the world. They are expected to define their core ethical virtues good enough to distinguish what construes as illegal and crime in Indian constitution. Emphasis be given on academic and research ethics, including fair Benefit Sharing, Plagiarism, Scientific Misconduct and so on.
- **Leadership readiness:** Graduates are expected to be familiar with the decision making process and basic managerial skills to become a better leader. Skills may include defining objective vision and mission, how to become a charismatic inspiring leader and so on. UGC DOCUMENT ON LOCF BOTe)

Assessment Methods:

- Academic performance in various courses i.e. core, discipline electives, generic electives and skill enhancement courses are to be considered as parameters for assessing the achievement of students in botany.
- A number of appropriate assessment methods of botany will be used to determine the extent to which students demonstrate desired learning outcomes. Following assessment methodology should be adopted;
- The oral and written examinations (Scheduled and surprise tests),
- Closed-book and open-book tests,
- Problem-solving exercises,
- Practical assignments and laboratory reports,
- Observation of practical skills,
- Individual and group project reports,
- Efficient delivery using seminar presentations,
- Viva voce interviews are majorly adopted assessment methods for this curriculum.
- The computerized adaptive testing, literature surveys and evaluations, peers and self-assessment,
- Outputs from individual and collaborative work are also other important approaches for assessment purpose

COURSE OUTCOMES OF BOTANY

COURSE OUTCOMES OF MICROBIAL BIODIVERSITY AND LOWER PLANTS

- On completion of this course, the students will be able to: Develop understanding on the concept of microbial adaptation and nutrition.
- Classify Bacteria ,viruses ,mycoplasma based on their characteristics and structures
- Understand the concept of reproduction in the microbes and its application modes for
- Develop critical understanding of plant diseases and their remediation. Examine the general characteristics of bacteria and their cell reproduction/ recombination
- Develop critical understanding of plant diseases and their remediation.

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- Assess the adaptation of plants in relation to light, temperature, water, wind and fire. Conduct experiments using skills appropriate to subdivisions.

COURSE OUTCOMES OF SYSTEMATIC BOTANY

Learning outcomes On completion of this course, the students will be able to:

- Classify Plant systematics and recognize the importance of herbarium and Virtual herbarium Evaluate the Important herbaria and botanical gardens
- Interpret the rules of ICN in botanical nomenclature
- Assess terms and concepts related to Phylogenetic Systematics
- Generalize the characters of the families according to Bentham & Hooker's system of classification.
- Analyze the implications of biometrics, numerical taxonomy and cladistics

COURSE OUTCOMES OF PHYSIOLOGY

On completion of this course, the students will be able to;

- Understand Water relation of plants with respect to various physiological processes.
- Applicative knowledge on mineral nutrition of plants.
- Explain chemical properties and deficiency symptoms in plants
- Know about various enzymes and their functions in the plants
- Classify aerobic and anaerobic respiration
- Explain the significance of Photosynthesis and respiration
- Assess dormancy and germination in plants

COURSE OUTCOMES OF PLANT BIODIVERSITY

After completion of the course, students could understand the:

- Distribution of various plants on the earth and their role in balancing nature.
- Could understand the interrelationship between the various plant communities.
- Assess the climatic types and the fauna distribute there
- Can well understand the need for conservation of biodiversity.
- Analyse various methods for steps taken by the government in conservation.

COURSE OUTCOMES OF SEED TECHNOLOGY

Learning outcomes: After completion of the course, the students will be able to;

- Understand the theoretical orientation of seed development Analyse the different ways of seed processing in different plants
- Examine the various methods of Seed testing
- Understand the method of seed production in different plants Explain the concept of hybrid seed production

Ability Enhancement Course 3: Mushroom Culture

On completion of this course, the students will be able to:

- Recall various types and categories of mushrooms. Demonstrate various types of mushroom cultivation technologies.
- Examine various types of food technologies associated with the mushroom industry.

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- Value the economic factors associated with mushroom cultivation
- Device new methods and strategies to contribute to mushroom production.

Skill Enhancement Course 5: Biofertilizers (Practical based course) L T P Cr 2 0 0 2 Learning outcomes:

- On the completion of this course, the students will be able to;
- Develop their understanding on the concept of bio-fertilizer Identify the different forms of biofertilizers and their uses
- Compose the Green manuring and organic fertilizers
- Develop the integrated management for better crop production by using both nitrogenous and phosphate bio fertilizers and vesicular arbuscular mycorrhizal (VAM).
- Interpret and explain the components, patterns, and processes of bacteria for growth

Skill Enhancement Course 7: Nursery and Gardening (Practical based) L T P Cr 2 0 0 2 Learning outcomes:

On completion of this course the students will be able to;

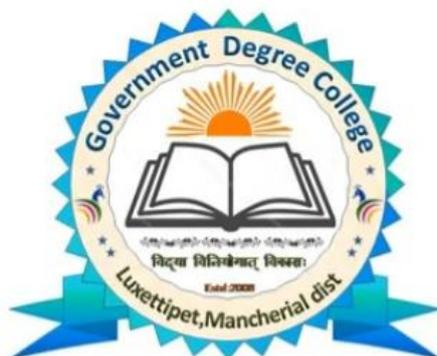
- Understand the process of sowing seeds in nursery List the various resources required for the development of nursery
- Distinguish among the different forms of sowing and growing plants Analyse the process of Vegetative propagation
- Appreciate the diversity of plants and selection of gardening
- Examine the cultivation of different vegetables and growth of plants in nursery and gardening

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DEPARTMENT OF CHEMISTRY

COURSE OUTCOMES

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COURSE OUTCOMES

DEPARTMENT OF CHEMISTRY

Chemistry is referred to as the science that systematically studies the composition, properties and reactivity of matter at atomic and molecular level. The scope of chemistry is very broad. The areas of study of chemistry comprise organic chemistry, physical chemistry, inorganic chemistry and general chemistry.

The learning outcomes based on course curriculum framework of chemistry is designed to persuade the subject specific knowledge. The practical associated with this course helps to develop an important aspect of the teaching learning process.

INORGANIC CHEMISTRY:

On completion of this course, the students will be able to understand

Learning objective:

1. Atomic theory and its evolution.
2. Physical and chemical characteristics of elements in various groups and periods.
3. Characterize bonding between atoms, molecular orbitals, and hybridization.
4. Ionic, covalent, metal bonds.
5. s-block, p-block, d-block, f-block elements.
6. Chemistry of noble gases.

ORGANIC CHEMISTRY:

On completion of this course the students will be all to understand

LEARNING OBJECTIVES:

1. Basic of organic molecules, structure, bonding, reactivity and reaction mechanism.
2. Stereo chemistry of organic molecules.
3. Chemistry of aliphatic & aromatic hydrocarbons.
4. Chemistry of natural product.

PHYSICAL CHEMISTRY

On completion of this course, the students will be able to understand

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LEARNING OBJECTIVE:-

1. Familiarization with various states of matter.
2. Gaseous state, behavior of real gases.
3. Liquid state and its physical property.
4. Solids, lattice parameters.
5. Thermodynamics, kinetics.

GENERAL CHEMISTRY

- Molecules spectroscopy & photo chemistry
- Analytical chemistry
- Nano chemistry
- Green chemistry



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DEPARTMENT OF COMMERCES

COURSE OUTCOMES

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GOVERNMENT DEGREE COLLEGE, LUXETTIPET

COURSE OUTCOMES

DEPARTMENT OF COMMERCE

❖ Financial Accounting.

- Students to understand instill the knowledge about accounting procedures, methods and techniques.
- Students to know impart the knowledge of various accounting concepts.
- To impart the knowledge of various accounting concepts.

❖ Business Statistics.

- To understand and to calculate various types of averages and variations.
- To understand the concept and techniques of different types of index numbers.
- To use correlation and regression analysis to estimate the relationship between two variables.
- To use frequency distribution to make decision.

❖ Banking and Finance.

- To provide students insight into the functions and role of Reserve Bank of India.
- To develop the capability of students for knowing banking concepts and operations.
- To enables students to understand the reforms and other developments in the Indian Banking .
- To acquaint the students with the fundamentals of banking.
- To enlighten the students regarding the new concepts introduced in the banking system.

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❖ Corporate Accounting

- To enable the students to develop awareness about Corporate Accounting in conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards.
- To make aware the students about the conceptual aspect of corporate accounting.
- To enable the students to develop skills about accounting standards.

❖ Company Law

- To apprise the students of new concepts involving in company law regime.
- To acquaint the students with the duties and responsibilities of Key Managerial Personnel.

❖ Advanced Accounting.

- To instill the knowledge about accounting procedures, methods and techniques.
- To acquaint them with practical approach to accounts writing by using software package.

❖ Auditing.

- To acquaint themselves about the concept and principles of Auditing, Audit process, Assurance Standard
- Tax Audit, and Audit of computerized Systems.
- To get knowledge about preparation of Audit report.

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❖ Taxation.

- To understand the basic concepts and to acquire knowledge about Computation of Income, Submission of Income Tax Return, Advance Tax, and Tax deducted at Source, Tax Collection Authorities under Income tax Act, 1961.

❖ Cost Accounting.

- To impart knowledge regarding costing techniques\
- To provide training as regards concepts, procedures and legal Provisions of cost audit.
- To provide Knowledge about the concepts and principles application of Overheads
- To provide also understanding various methods of costing and their applications.

❖ Computerized accounting.

- To acquaint them with practical approach to accounts writing by using software package.
- To acquaint them with practical approach to accounts writing by using software package

❖ Business organization.

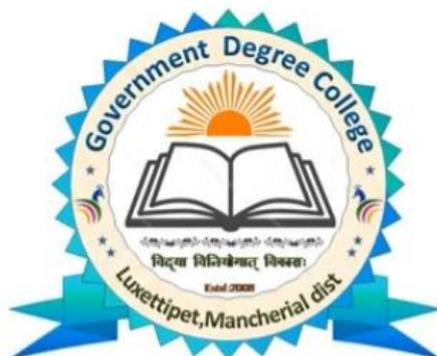
- To provide adequate basic understanding about Management Education among the students.
- To develop appropriate skills in the students so as to make them competent and provide themselves Self employment.
- To inculcate Entrepreneurial skills.

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DEPARTMENT OF COMPUTERS

COURSE OUTCOMES

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Department of Computers

Course outcomes

1st year

Course name	Outcome
B.Sc(M) & B.A	<p>Students will be able to:</p> <ol style="list-style-type: none">1. Understand organization of computers, input/output devices, classification of computers, different generations of programming language, basics of C programming language.2. Understand various control structures supported by C.3. Understand various I/O and string functions in C.4. Understand arrays and 'ctype.h' header file.5. Declare various user defined data types (structures, unions and enumeration).6. Declare and use functions.7. Use storage classes and declare variables of global and local scope.8. Perform different file operations (open a file, read from a file, write to a file, close a file).
B.Com	<p>Students will be able to:</p> <ol style="list-style-type: none">1. Understand evolution of computers, organization of computers, classification of computers, applications of computers.2. Differentiate between various input and output devices.3. Convert from one number system to another (decimal, hexadecimal, octal and binary).4. Categorize different memories of a computer (primary and secondary memory).5. Understand different types of software (system software and application software).6. Understand basics of an operating system, types of operating system.7. Understand basics of computer networks, types of networks and various network topologies.

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2nd year:

Course name	Outcome
B.Sc (M) & B.A	<p>Students will be able to:</p> <ol style="list-style-type: none">1. Explain the features of database management system and traditional file processing system.2. Understand different data models.3. Develop Entity Relationship diagrams.4. Design relational database.5. Understand various keys (primary keys, foreign keys, surrogate keys etc).6. Develop a data base application by using data base commands (DDL,DML,DCL).7. Retrieve information from a database by constructing queries.8. Apply concepts of normalization to design optimal database.9. Perform complex operations by using Advanced SQL.
B.Com	<p>Students will be able to:</p> <ol style="list-style-type: none">1. Different generations of programming languages, basics of C programming language.2. Understand various control structures supported by C.3. Understand various I/O and string functions in C.4. Understand arrays and 'ctype.h' header file.5. Declare various user defined data types (structures, unions and enumeration).6. Declare and use functions.7. Declare and use pointers.8. Use storage classes and declare variables of global and local scope.9. Perform different file operations (open a file, read from a file, write to a file, close a file).

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DEPARTMENT OF ECONOMICS

COURSE OUTCOMES

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COURS OUTCOMES

DEPARTMENT OF ECONOMICS

Economic analysts.

- 1.Students will understand and demonstrate core micro-economic terms, concepts, and theories.
- 2.Students will be able to differentiate between positive and normative statements.
- 2.Students will be able to analyze data to solve complex economic problems.
- 3.Students will understand general economic concepts (supply & demand, comparative advantage, opportunity cost, etc.)
4. Students will understand micro-economic concepts (elasticity, monopoly, price discrimination, etc.)

Macro-economic terms.

Students will understand and demonstrate core macro-economic terms, concepts, and theories

- 1: Students will be able to differentiate between positive and normative statements.
- 2: Students will be able to analyze data to solve complex economic problems. o Trait
- 3: Students will understand general economic concepts (supply & demand, comparative advantage, opportunity cost, etc.).
- 4: Students will understand macroeconomic concepts (GDP, unemployment, aggregate demand/supply, etc.)

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Micro Economics .

1. To understand individual agents of market
2. To able to understand consumer behavior
3. To able to understand concept of cost
4. To able to understand Linear & Non- Linear functional relationship.
5. To able to understand price determination of factors
6. To able to understand various theories of factors
7. To able to understand concept of profit & Interest
8. To able to understand market equilibrium of firm in monopolistic market.

Economic theories.

Objective 1: Students will be able to describe how economic trade-offs and social values impact public/private policy.

o Trait 1: Students will be able to explain the function of markets and prices as allocative mechanisms. o

Trait 2: Students will be able to explain how fiscal and monetary policies can be used to promote equity. o

Trait 3: Students will be able to identify key macroeconomics indicators, and measures of economic change, growth, and development.

o Trait 4: Students will be able to identify and explain the key concepts underlying comparative advantage and market failure

Indian Economy.

1. To able to understand nature of Indian economy.
2. To able to understand population & economic development.
3. To able to understand infrastructure and economic development.

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4. To able to understand role of agriculture in Indian economy.
5. To able to understand cooperative sector in economy.
6. To able to understand economic planning in India.
7. To To able to understand industrial sector in India .
- 8.able to understand recent structural changes in economy.

International Economics.

1. To able to understand theories international trade.
2. To able to understand gains from international trade & their measurements.
3. To able to understand theory of intervention in trade.
4. To able to understand trade policies in India.
5. To able to understand international financial institutions.
6. To able to understand foreign direct investments.

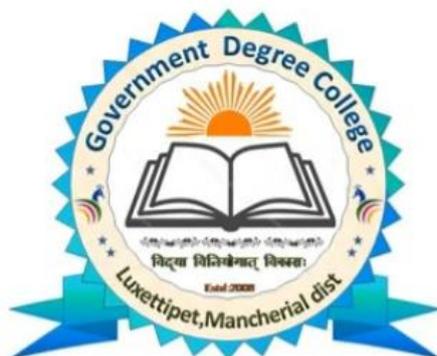
Agriculture Economics.

- 1.To able to understand economics of agriculture.
- 2.To able to understand Indian agriculture sector.
- 3.To able to understand agricultural prices, marketing & subsidies in India.
4. To able to understand agriculture finance, insurance& capital formation.
- 5.To able to understand economics of agricultural production.
- 6.To able to understand technology in agriculture.
- 7.To able to understand management of animal genetics resources.
- 8.To able to understand WTO & agriculture.

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DEPARTMENT OF ENGLISH

COURSE OUTCOMES

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COURSE OUTCOME

DEPARTMENT OF ENGLISH

English language plays an influential role in contemporary India. The ability to communicate fluently in English is now an important aspect of education and has developed into a key skill highly sought after by employers

English for advancement has thus been prepared bearing this in mind while also trying to meet the needs and interests of the students.

This is for semester I and II students and has been structured in a learner centric manner. Each unit includes a section on short fiction, prose, poetry or drama by authors from different ages and back grounds to stimulate the imagination of learners. These texts introduce learners to well-written stories, compelling characters and good English. Each unit also includes sections on Listening, Speaking, Reading and Writing (LSRW skills), grammar, vocabulary, pronunciation Language skills and soft skills. These sections are all integrated into the lessons to help students strengthen their understanding of the language by ensuring them actively put into practice what they learn.

English for accomplishment is meant for the third and fourth semesters of the II year of undergraduate English language course under the Choice Based Credit system.

We handled the commonly asked questions of grammar that often feature in competitive examinations, to help students in coping with real life challenges.

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DEPARTMENT OF HINDI

COURSE OUTCOMES

2.6.1

Department of Hindi

COURSE OUTCOMES

Semester-1

UTSAAH, CHARITHRA SANGHATAN: Students can improve their interest in various domains. Charithra sanghatan lesson inspire the students to develop their good characteristics in life.

BAZAR DARSHAN: This lesson teaches to students how to manage expenditures in market.

BHARATH MEIN SANSKRUTHI SANGAM, RASHTRA KA SWAROOP:

By these lessons students can know the university in diversity of India as well as culture and traditions.

SADHGATHI:

This is a story reveals the situations of illiterates in the society.

CHOTA JAADOOGAR:

This is a story that shows the circumstances at the time of freedom fight faced by the families of freedom fighters.

PRAAYASCHITH: It is a story shows superstitious situations in our country.

GRAMMER:

Grammer can help students to improve their language for further studies. KARYALAYEEN HINDI AND PADHNAAM: These topics are useful to acquire hindi officers and translator jobs.

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SEMESTER -2

DHARTHI KA SWARG:

Students can know the beauty of Kashmir.

THAEE: through this lesson students can know the psychological situations of elders in joint families.

RAJNEETHI KA BANTWAARA:

This is a lesson that give awareness of political situations.

SWAMY VIVEKANANDA:

By the life history of Swamy vivekanandastudents can get inspire and follow toward his sayings and spirituality.

PARYAAWARAN AUR HUM:

This is a lesson that reveals about pollution and its bad impact on nature.

GRAMMER:

Sandhi and opposite words can improve the language of students.

LETTER WRITING:

This is useful to students to improve their communication skills in Hindi.

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SEMESTER -3

KABIR KE DOHEIN AND BAL LEELA, THLASIDAS KE DOHEIN:

These lessons improves the morality and spirituality of students.

NAVYUVAKON SE, PHOOL AUR KAANTA:

These are the lessons to inspire the students and importance of youth participation in the country development.

JEEVAN KA ADHIKAAR:

By this lesson students can get knowledge struggle for existence in the society.

HISTORY OF HINDI LITERATURE:

This topic is useful to get knowledge of Hindi literature and also useful who attempts the M.A. Hindi entrance examinations.

NIBANDH:

This is useful to improve the knowledge and writing skills of students.

TRANSLATION:

This topic is useful to improve students knowledge in translation to get translation jobs in future.

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SEMESTER-4

MEERA KE PADH ,RAHEEM KE DOHEIN,BIHARI KE DOHEIN:

Students can improve their moral values and spiritual life in the society

BHAGWAAN BUDH KE PRATHI:

By this lesson students get knowledge the idealism of budha bhagwaan and implent the idealism of Bhagwaan Budha in regular life.

ANUBHAV KA PARIPAKWA:

Students can knowledge through their self experience and how to adjust in the different situations in normal life.

HISTORY OF HINDI LITERATURE:

REETHI KAAL AND ADHUNIK KAAL:This topic is useful to get the knowledge of Hindi literature and also useful for further studies in Hindi domain.

RACHNAAKAARON KA SAMKSHIPTH PARICHAY:Students can know the knowledge of various authors and their writings in Hindi.

BODHGAMYA GADHYAANSH:this is useful to students to improve their observation ability.



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DEPARTMENT OF HISTORY

COURSE OUTCOMES

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COURSE OUT COMES

DEPARTMENT OF HISTORY

HISTORY OF INDIA [UP TO 1206]

Understand the silent features of Indus valley civilization.

Evaluate the feature of buddhisam and jainisam.

Visualize the administration of mauryan and the art and architecture of mauryas.

Identify the administration of Guptas art and their examine architecture economic and social condition.

HISTORY OF INDIA [1206-1707]

Understand the foundation of the delhi sultanate and administration.

Recognise the socio, economic and religious conditions kakatiya and vijaya nagara empires.

Identify the condition of india under the mughal empire.

Explain the administration and art archecture of mughals.

Analyse the rise of the marthas and the contribution of shivaji.

HISTORY OF INDIA [FROM 1707 TO 1947]

Discuss the advent of Europeans and their adminisrtartion.

Evaluate the anglo –mysore wars and anglo- sikh wars .

Realise the permanant revenue system and lord Rippon local self government.

Unerstand about the socio – religious reform movement in 19th century.

State the role moderates and extremists in the freedom movment.

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HISTORY OF EUROPE [FROM 1453-1815 AD]

Describe the geographical discoveries and the renaissance movement in Europe.

Asses the causes and effects of reformation and counter reformation movements.

Learn the causes and results of thirty years was discuss the peter the grate and lenon.

HISTORY OF EUROPE [FROM 1815-1950 AD]

Realize the congress Vienna 1815 principles and impact of maternich and his system.

Visualize the importance of revolt of 1830 and 1848 in france and the efforts of Bismark for the unification of germany.

Undersatand the cause and result for the first world war.

Exmmine the Nazism and Fascisam in germany And Italy.

Undertsand the causes and result of second world war and the establishment of united nation of organisation.

HISTORY OF TELANGANA UPTO 1724

Describe the geographical features and the sources of telangana.

Understand the foundation of sathavahana period and Ishvakas , Vshnukndinis and brief political history.

Recognise kakatiyas administration, society economy art and architecture

Identify the condition of telanagana under the qutbsahis of Golconda empire.

HISTORY OF TELANGANA [FROM 1724 TO 2014]

Understand the foundation of the asafjahi dynasty administration and reforms.

Recognise the social, cultural and political awakening in telangana.

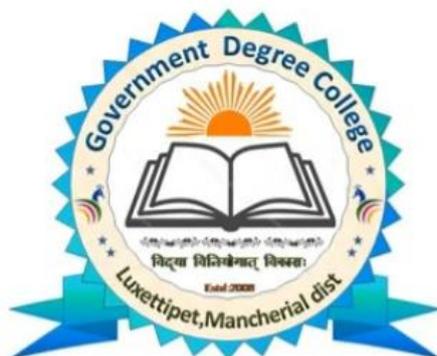
Explain the movement for separate telangana and later development.

Analyse the formation of telangana state june 2014.

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DEPARTMENT OF POLITICAL SCIENCE

COURSE OUTCOMES

2.6.1

GOVERNMENT DEGREE COLLEGE, LUXETTIPET

COURSE OUT COMES

DEPARTMENT OF POLITICAL SCIENCE

POLITICAL THEORY:

- To understand the nature and scope of political theory, and its significance.
- Students to know debates on political theory.
- Interpret and assess information regarding a variety of political theory.
- Evaluate the theories of origin of the state.
- Comprehend sources of political information.
- To understand what is liberty and types of liberty.
- Evaluate equality and its features.
- Students to know what is justice.
- Students to know about political institutions and its functions.
- They also understand origins of governments like legislature, executive and judiciary.
- They also know about law making process.
- Recognize the activities of political parties.

INDIAN GOVERNMENT AND POLITICS :

- Understand the Indian constitutions, features, and significance of constitutions.
- Examining the fundamental rights and duties of Indian citizens.
- Critically analyzing the important institutions of the Indian union.

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- Students to know president , parliament , primeminister and council of ministers.
- Evoluting the rule of various on indan politics like religion ,caste cribe etc.
- To understand elction commission of india and its functions .
- Students investigating the social movements , like women movements , farmer movements.

POLITICAL THOUGHT:-

- To understand the evaluation of Indian political thought from ancient india to modern india
- Discussing the nationalisam of Gandhi , Nehru and M.N. Roy.
- Describing the moments against cast and untouchbling .
- Ambedkar views on social justice and the depressed classes.
- Analyzing the political thoughts of Plato, Aristotle, J.S.Mill, Lock ,Hubbes and Rousseu.

INTERNATIONAL RELATIONS :-

- To understand scope and subject matter of international relations.
- Examing the issues of under development,terrorism,regionalisiam , integration and characteristics the post second world war.
- Describing the cold war phases and understanding the post cold war era.
- Evaluating of the working united nation organization [UNO] , peace keeping and functions of human rights.

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OUTCOMES OF POLITICAL SCIENCE

THEORIES OF ORIGIN OF THE STATE .

Students to understand what is the state and how they are formed, understand the conditions that Precede the origin of state.

FUNDAMENTAL RIGHTS.

Students to what are rights and its importance of rights and classifications of rights and what are the civil duties.

POLITICAL PARTIES

Develop the knowledge of the students for knowing what is a political party , types of political party, features of the political parties.

PARLIAMENT OF INDIA.

To understand the basic concepts of the structure of parliament , functions and power of parliament as well as they know about loksabha and rajyasabha and law making process.

POLITICAL PHILOSOPHERS.

Students to know about the greek states and ancient greeks and philosophers like plato , Aristotle, hobbes , lock and russoue.

INTERNATIONAL RELATIONS.

To impart knowledge of the relationship between the world countries, world peace, the treaties, and the Trade deals.

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DEPARTMENT OF

ZOOLOGY

COURSE OUTCOMES

2.6.1

COURSE OUT COMES

DEPARTMENT OF ZOOLOGY

PLATY HELMINTHES.

Students can learn how to protect their health to prevent the diseases of parasites.

NEMATY HELMINTHES.

These parasites commonly called as thread worms. Its effects in human bodies to decrease immune system.

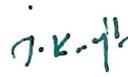
Now a days it is a burning problem to face the thread worms.

The students know to protect themselves how to maintain their health and they can teach people how to prevent these inner parasites by maintain proper conditions.

PEARL FORMATION

Commonly the molluscans can produce the pearls especially pinctada a group of animals can produce natural pearls.

Students can learn the life history of pinctada and how to form pearls and the economic importance of pearl formation. And it helps to vocational studies.


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ENVIRONMENTAL STUDIES

Now a days the pollution a burning issue. like air , sound , earth , water etc.

Students can learn how to protect the nature and prevent the pollutions.

And they should know wild life conservation of animals and protect the endangered species.

ENDOCRINE GLANDS

This is a vital topic in UG students. The human body is depend upon the endocrine glands. in every physiological activities under the control of hormones .

The students can learn themselves to hormones of body. The importance of thyroid , pancreas , adrenal etc.

If they are interested they can choose one of the subject of endocrinology in higher studies. Which helps to research purposes.

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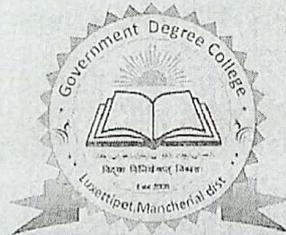
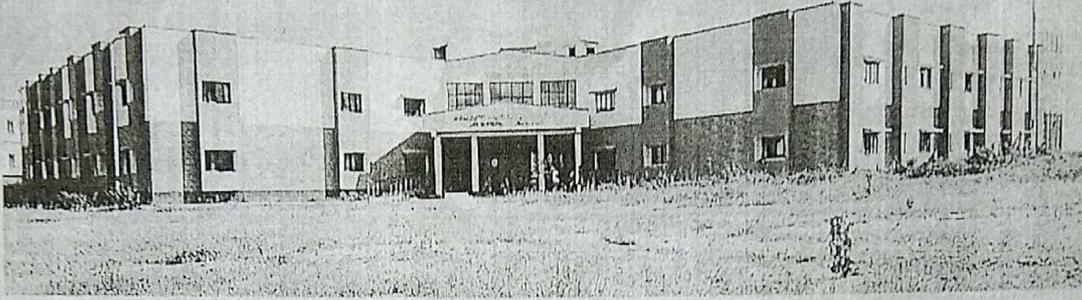


DEPARTMENT OF MATHEMATICS

COURSE OUTCOMES

2.6.1

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COURSE OUTCOMES
DEPARTMENT OF MATHEMATICS

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COURSE OUTCOMES OF MATHEMATICS

Introduction:

The learning outcomes are attained by the students during through skills acquired during a programme of study. Outcome based learning is the principal end of pedagogical transactions in higher education in today's world in the light of exponential changes brought about in science and technology. Especially in mathematics, and the prevalent utilitarian world view of the society. Mathematics is the study of Quantity, Structure, Space and Change. It has broad scope in science, engineering and social science.

The key areas of study in mathematics are:

1. Calculus
2. Algebra
3. Differential Equation
4. Analysis
5. Geometry
6. Mechanics

Programme (B. Sc. Mathematics) Outcomes

1. Enabling students to develop a positive attitude towards Mathematics as an interesting and valuable subject of study.
2. A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
3. Ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.
4. Introduction to various courses like group theory, ring theory, field theory, metric spaces, number theory.
5. Enhancing students' overall development and to equip them with mathematical modeling abilities, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
6. Ability to pursue advanced studies and research in pure and applied mathematical science.

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Programme Specific Outcomes of B.Sc. Mathematics

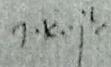
1. Think in a critical manner.
2. Know when there is a need for information, to be able to identify, locate, evaluate, and effectively use that information for the issue or problem at hand.
3. Formulate and develop mathematical arguments in a logical manner.
4. Acquire good knowledge and understanding in advanced areas of mathematics, chosen by the student from the given courses.
5. Understand, formulate and use quantitative models arising in social science, Business and other contexts.

I-YEAR SEMESTER-I PAPER-I DIFFERENTIAL AND INTEGRAL CALCULUS

On Completion of this course the students will be able to:

1. Explain the relationship between the derivative of a function as a function and the notion of the derivative as the slope of the tangent line to a function at a point.
2. Compare and contrast the ideas of continuity and differentiability.
3. To inculcate to solve algebraic equations and inequalities involving the sequence root and modulus function
4. To able to calculate limits in indeterminate forms by a repeated use of L'Hospital rule.
5. To know the chain rule and use it to find derivatives of composite functions.
6. To find maxima and minima, critical points and inflection points of functions and to determine the concavity of curves.
7. Learn to define integral calculus and expression of lengths of curves.
8. Learn to define volumes and surface of revolution. Apply to determine volume and surface revolution.

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**I-YEAR SEMESTER-II PAPER-II
DIFFERENTIALS EQUATIONS**

On Completion of this course the students will be able to:

1. The main aim of the course is to introduce the students to the technique of solving various problems of engineering and science.
2. Distinguish between linear, non-linear, homogeneous, non-homogeneous partial and ordinary differential equations.
3. Solve basic application problems described by first order linear differential equations with constant coefficients.
4. Understand the genesis of ordinary as well as partial differential equation
5. Learn various techniques of getting exact solution of certain solvable first order differential equations and linear differential of second order
6. Know how to solve second order linear partial differential equation with constant coefficient.

**II-YEAR SEMESTER-III PAPER-III
REAL ANALYSIS**

On Completion of this course the students will be able to:

1. Understand basis properties of real number system such as least upper bound property and order property
2. Realize importance of bounded, convergent, Cauchy and monotonic sequences of real numbers, find their limit superior and limit inferior
3. Apply various tests to determine convergence and absolute convergence of a series of real numbers
4. Relate concepts of uniform continuity, differentiate, integration and uniform convergence.
5. Learn about differentiation and Mean Value theorem, Taylor theorem.
6. Geometrical representation and problem solving on MVT and Rolle's theorem
7. Learn about Riemann Integrability of bounded function algebra of R-Integral
8. Determine various application of the fundamental theorem of integral calculus

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**II-YEAR SEMESTER-IV PAPER-IV
GROUP THEORY AND RING THEORY**

On Completion of this course the students will be able to:

1. Learn about the fundamental concepts of groups, subgroups, normal subgroups, isomorphism theorems, cyclic and permutation groups
2. Apply various tests to determine cyclic and permutation problems
3. Analyze consequences of Lagrange's theorem
4. Learn about the fundamentals concepts of ring, sub ring, field
5. Learn to define the properties of rings and fields.
6. Learn about left/right Ideals and its properties and prime ideals and maximal ideals and their properties
7. Relate the concept of Homomorphism of rings with group homomorphism

**III-YEAR SEMESTER-V PAPER-V
LINEAR ALGEBRA**

On Completion of this course the students will be able to:

1. Linear Algebra emphasizes the concept of vector spaces and linear transformations which are essential in simplifying various scientific problems
2. Understand the term of vector space, sub space, null space, linear transformation
3. Learn to define rank-change of basis
4. Determine Eigen values Eigen vectors , Diagonalization

**III-YEAR SEMESTER-V PAPER-VI (a)
SOLID GEOMETRY**

On Completion of this course the students will be able to:

1. Learn to define sphere and plane section of the sphere.
2. Understand the concepts of cone, conicoid and the cylinder.
3. Determine to solve problems with the examples

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**III-YEAR SEMESTER-VI PAPER-VII
NUMERICAL ANALYSIS**

On Completion of this course the students will be able to:

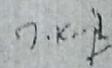
1. Solve an algebraic or transcendental equation using an appropriate numerical method.
2. Find numerical solutions of system of linear equations and check the accuracy of the solutions.
3. Learn about various interpolating and extrapolating method.
4. Calculate a definite integral using an appropriate numerical method
5. Solve a differential equation using an approximate numerical method.
6. Evaluate a derivative at a value using an appropriate numerical method
7. Solve initial and boundary value problems in differential equations using numerical methods.
8. Using appropriate numerical methods determine approximate solution of ODE and system of linear equation.
9. Apply various numerical methods in real life problems

**III-YEAR SEMESTER-VI PAPER-VIII (b)
VECTOR CALCULUS**

On Completion of this course the students will be able to:

1. Vector calculus motivates the study of vector differentiation and integration in two and three dimensional spaces.
2. Recognize partial derivative and multiple integral concepts that are encountered in the real world scenarios.
3. Study about Green's theorem and Gauss theorem and their applications.

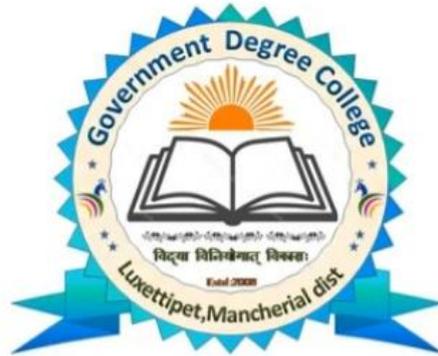
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DEPARTMENT OF PHYSICS

COURSE OUTCOMES

2.6.1

**GOVERNMENT DEGREE COLLEGE, LUXETTIPET
DEPARTMENT OF PHYSICS**

COURSE OUTCOME

MECHANICS – I

After going through the course, the student should be able to

- Understand laws of motion and their application to various dynamical situations, motion of inertial frames and concept of Galilean invariance. He / she will learn the concept of conservation of energy, momentum, angular momentum and apply them to basic problems.
- Understand the analogy between translational and rotational dynamics
- Understand the phenomena of collisions and idea about center of mass and laboratory frames and their correlation.
- Apply Kepler's law to describe the motion of planets and satellite in circular orbit, through the study of law of Gravitation.
- In the laboratory course, the student shall perform experiments related to mechanics (compound pendulum), rotational dynamics (Flywheel), elastic properties (Young Modulus and Modulus of Rigidity) and fluid dynamics (measurement of viscosity and surface tension) etc.

THERMAL PHYSICS – II

- Learn the basic aspects of kinetic theory of gases, Maxwell-Boltzman distribution law, equipartition of energies, mean free path of molecular collisions, viscosity, thermal conductivity, diffusion and Brownian motion.
- Comprehend the basic concepts of thermodynamics, the first and the second law of thermodynamics, the concept of entropy and the associated theorems, the thermodynamic potentials and their physical interpretations.
- Learn about Maxwell's thermodynamic relations.
- Learn about the real gas equations, Vander Waal equation of state, the Joule Thomson effect.
- Learn about the black body radiations, Stefan- Boltzmann's law, Rayleigh-Jean's law and Planck's law and their significances.
- Understand the concepts of microstate, macrostate, ensemble, phase space, thermodynamic probability and partition function.
- Understand the combinatoric studies of particles with their distinguishably or indistinguishably nature and conditions which lead to the three different distribution laws e.g. Maxwell-Boltzmann distribution, Bose-Einstein distribution and Fermi-Dirac distribution laws of particles and their derivation.
- Comprehend and articulate the connection as well as dichotomy between classical statistical mechanics and quantum statistical mechanics.
- In the laboratory course, the students are expected to do some basic experiments in thermal Physics, viz., determinations of Stefan's constant, coefficient of thermal conductivity, temperature coefficient of resistance,

variation of thermo-emf of a thermocouple with temperature difference at its two junctions and calibration of a thermocouple, characteristics of thermistor.

ELECTROMAGNETIC THEORY – III

- Demonstrate Gauss law, Coulomb's law for the electric field, and apply it to systems of point charges as well as line, surface, and volume distributions of charges.
- Explain and differentiate the vector (electric fields, Coulomb's law) and scalar (electric potential, electric potential energy) formalisms of electrostatics.
- Apply Gauss's law of electrostatics to solve a variety of problems.
- Apply Kirchhoff's rules to analyze AC circuits consisting of parallel and/or series combinations of voltage sources and resistors and to describe the graphical relationship of resistance, capacitor and inductor.
- Apply various network theorems such as Superposition, Thevenin, Norton, Reciprocity, Maximum Power Transfer, etc. and their applications in electronics, electrical circuit analysis, and electrical machines.
- In the laboratory course the student will get an opportunity to verify various laws in electricity and magnetism such as Lenz's law, Faraday's law and learn about the construction, working of various measuring instruments. Should be able to verify of various circuit laws, network theorems elaborated above, using simple electric circuits.

WAVES AND OPTICS – IV

- To understand the propagation of transverse waves along stretched strings
- Understand the modes of vibration, fundamentals and overtones
- Understand the longitudinal and transverse vibrations in bars
- Understanding the phenomenon of Interference, Diffraction and Polarization of light
- Understand the working of selected optical instruments like biprism, interferometer and diffraction grating
- In the laboratory course, student will gain hands-on experience of using various optical instruments and making finer measurements of wavelength of light using Newton Rings experiment, Fresnel Biprism etc. Resolving power of optical equipment can be learnt first hand. The laws governing the vibrations in stretched string, velocity of transverse wave and frequency of bar using Melde's Experiment can be studied.

- Analyse the phenomena of wave propagation in the unbounded, bounded, vacuum, dielectric, guided and unguided media.
- Understand the laws of reflection and refraction and to calculate the reflection and transmission coefficients at plane interface in bounded media.
- Understand the linear, circular and elliptical polarisations of em waves. Production as well as detection of waves in laboratory
- In the laboratory course, the student gets an opportunity to perform experiments Demonstrating principles of Interference, Refraction and diffraction of light using monochromatic sources of light.
- Demonstrate interference, Refraction and Diffraction using microwaves. Determine the refractive index of glass and liquid using total internal reflection of light.

SOLID STATE PHYSICS – VI (A)

- A brief idea about crystalline and amorphous substances, about lattice, unit cell, miller indices, reciprocal lattice, concept of Brillouin zones and diffraction of X-rays by crystalline materials.
- Knowledge of lattice vibrations, phonons and in depth of knowledge of Einstein and Debye theory of specific heat of solids.
- Knowledge of different types of magnetism from diamagnetism to ferromagnetism and hysteresis loops and energy loss.
- Secured an understanding about the dielectric and ferroelectric properties of materials. Understanding above the band theory of solids and must be able to differentiate insulators, conductors and semiconductors.
- Understand the basic idea about superconductors and their classifications.
- To carry out experiments based on the theory that they have learned to measure the magnetic susceptibility, dielectric constant, trace hysteresis loop.
- They will also employ to four probe methods to measure electrical conductivity and the hall set up to determine the hall coefficient of a semiconductor

MODERN OPTICS – VI (C)

- This course will help in understanding about the lasers and detectors, Holography, Optical fibre and their applications.
- Familiar with optical phenomena and technology. Qualitative understanding of basic lasing mechanism, types of Lasers, characteristics of Laser Light, types of Lasers, and its applications in developing LED, Holography.
- The idea of propagation of electromagnetic wave in a nonlinear media – Fibre optics as an example will enable the student to practice thinking in a logical process, which is essential in science.
- Experiments in this course will allow the students to discuss in peer groups to develop their cooperative skills and reinforce their understanding of concepts.



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QUANTUM MECHANICS AND APPLICATIONS – VI (C)

- After an exposition of inadequacies of classical mechanics in explaining microscopic phenomena, quantum theory formulation is introduced through Schrodinger equation.
- The interpretation of wave function of quantum particle and probabilistic nature of its location and subtler points of quantum phenomena are exposed to the student.
- Through understanding the behavior of quantum particle encountering a i) barrier, ii) potential, the student gets exposed to solving non-relativistic hydrogen atom, for its spectrum and eigen functions.
- Study of influence of electric and magnetic fields on atoms will help in understanding Stark effect and Zeeman Effect respectively. The experiments using Sci-lab will enable the student to appreciate nuances involved in the theory. This basic course will form a firm basis to understand quantum many body problems.
- In the laboratory course, with the exposure in computational programming in the computer lab, the student will be in a position to solve Schrodinger equation for ground state energy and wave functions of various simple quantum mechanical one dimensional and three dimensional potentials.

MODERN PHYSICS – VII

- To understand the various atomic models, their limitations and advantages.
- Learn about the wave particle duality, Davisson Germer experiment and Heisenberg uncertainty principle.
- Learn the ground state properties of a nucleus – the constituents and their properties, mass number and atomic number, relation between the mass number and the radius and the mass number, average density, range of force, saturation property, stability curve, the concepts of packing fraction and binding energy, binding energy per nucleon vs. mass number graph, explanation of fusion and fission from the nature of the binding energy graph.
- Know about the nuclear models and their roles in explaining the ground state properties of the nucleus –(i) the liquid drop model, its justification so far as the nuclear properties are concerned, the semi-empirical mass formula, (ii) the shell model, evidence of shell structure, magic numbers, predictions of ground state spin and parity, theoretical deduction of the shell structure, consistency of the shell structure with the Pauli exclusion principles.
- Learn about the process of radioactivity, the radioactive decay law, the emission of alpha, beta and gamma rays, the properties of the constituents of these rays and the mechanisms of the emissions of these rays, outlines of Gamow's theory of alpha decay and Pauli's theory of beta decay with the neutrino hypothesis. Fission and Fusion reactions.

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- Learn about the slow neutrons interacting with Uranium 235; Fusion and thermonuclear reactions driving stellar energy

BASIC ELECTRONICS – VIII (A)

At the end of the course the student is expected to assimilate the following and possesses basic knowledge of the following.

- Passive and active elements, network models and transformations, Superposition theorem, Thevenin's theorem, Norton's theorem. Reciprocity theorem and Maximum power transfer theorem.
- To understand two port networks, Z, Y and h parameters
- Learn energy band theory and Fermi level
- To understand the formation of N- and P- type semiconductors, fabrication of P-N junctions; forward and reverse biased junctions. PN Diode, Zener diode and its characteristics
- To learn Digital electronics – number conversions, Basic logic gates, Boolean algebra.
- Application of PN junction for different type of rectifiers and voltage regulators.
- NPN and PNP transistors and basic configurations namely common base, common emitter and common collector, and also about current and voltage gain.
- Biasing and equivalent circuits, coupled amplifiers and feedback in amplifiers and oscillators. Oscilloscope (CRO) and applications and usage of oscilloscopes for measuring voltages, currents and study of waveforms, Different rectifiers and voltage regulation using Zener diode

PHYSICS OF SEMICONDUCTOR DEVICES – VIII (B)

- To understand the differences between conductor, insulator and semiconductor, Energy bands, Intrinsic and Extrinsic Semiconductors
- To learn the experimental set up and significance of Hall Effect
- To learn the formation of P-N junction, band diagram and dynamic characteristics of diode
- To understand the construction and working of special type of diodes – Schottky diode, LED, Photo diode, back diodes, Tunnel and Zener diode.
- To study the construction and working of transistor (BJT), FET, MOSFET and photo transistor
- In the laboratory course, the students get an opportunity to demonstrate the characteristics of PN diode, Zener diode, transistor, FET, UJT, SCR and thermistor.

ELECTRONIC INSTRUMENTATION – VIII (C)

After the successful completion of the course the student is expected to


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- Have the necessary working knowledge on accuracy, precision, resolution, range and errors/uncertainty in measurements.
- To perform dc measurements using voltmeter, ammeter and ohmmeter.
- To understand the working of ac voltmeter and ammeter, frequency meter, digital LCR Q- meter, wattmeter.
- To learn the working of signal generators like audio oscillators, function generators, pulse and RF generators
- To understand the working of CRO and its associated circuitry
- To learn the types of transducers for measurement of mechanical, electrical and thermal properties of material.
- In the laboratory, he/she will acquire hands on skills in the usage of oscilloscopes, multimeters, rectifiers, amplifiers, oscillators and high voltage probes. He also would have gained knowledge on the working and operations of LCR Bridge, generators, digital meters and counters.



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DEPARTMENT OF TELUGU

COURSE OUTCOMES

2.6.1

GOVERNMENT DEGREE COLLEGE, LUXETTIPET
DEPARTMENT OF TELUGU
COURSE OUTCOMES

SEMESTER - I

CO1:

- To know the impact of Ancient literature values and the traditional issues.
- Understand the status of women strategy in Vedic period.

CO2:

- Inculcate the personality of modern women
- Understanding the modern concepts of "abhyudhaya kavithvam"

CO3:

- Understanding fiction writing
- To Realize the values lying the human lives

CO4:

- To acquire knowledge of ancient and modern grammar in Telugu
- To understand telugu vakyavisheshalu

SEMESTER - II

CO1:

- To understand the relation between god and nature and realize the value of belief, which leads to success
- Ancient significances of marriage system in India
- To know how to solve the problem

CO2:

- Ecological awareness, which is essential for human lives and natural resources like water, plants etc...
- Awareness about nature behavior

CO3:

- Brining awareness in story telling.
- Encouraging the views of students to read various stories

CO4:

- To study about endangered arts


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SEMESTER - III

CO1:

- To know the value of giving nature, that hikes the personality
- To Bringing the awareness on greediness
- Pride should not go ahead

CO2:

- To Bringing a view on original literature
- To Bringing the awareness on festivals and culture
- Morality in human beings

CO3:

- Importance of telugu language
- Importance of personality development, attitude, action, belief and behavior

CO4:

- To study Sanskrit literature like chandassu, alankaraalu

SEMESTER - IV

CO1:

To understand the value of truth in ancient Literature
Devotion and philosophical values

CO2:

Learn About modern Telangana poets like Kaloji, Ramireddy etc
Knowing about Telangana special statehood movement

CO3:

Knowing about Nizam rule in stories
Research about our village names

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