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**GOVERNMENT DEGREE COLLEGE**

**NARASANNAPETA-SRIKAKULAM DIST.-532421.**

**Accredited by NAAC 'B' Grade  
(Affiliated to DR.B.R.Ambedkar University)**



# PROGRAMME OUTCOMES



# GOVERNMENT DEGREE COLLEGE

NARASANNAPETA-SRIKAKULAM DIST.-532421.

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## DEPARTMENT OF MATHEMATICS

### PROGRAMME 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 mathematic, chosen by the student from the givencourses .
5. Understand, formulate and use quantitative models arising in social science and other contexts .

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## DEPARTMENT OF ZOOLOGY

### PROGRAM OUTCOMES OF B.SC. IN ZOOLOGY 2022-23

#### GOVERNMENT DEGREE COLLEGE, NARASANNAPETA

##### Program Outcomes: B.Sc.Zoology

- PO1 - Aware students about knowledge and skill in the fundamentals and systematics of animal kingdom.
- PO2 – Gain knowledge of anatomical structure and various metabolic functions of organisms.
- PO3 – Understand various physiological processes at molecular level of animals from different phyla.
- PO4 – Information and skill of advanced biological techniques for experimental purpose.
- PO5 – Awareness about environment and its conservation processes, pollution control and its importance.
- PO6 – Gain knowledge of protection of vulnerable and endangered species
- PO7-Information and skill of applied zoology including sericulture, apiculture, fisheries, poultry, vermiculture, agricultural pests and their control etc.
- PO8 – Aware students about ethical principles and commit to professional ethics and responsibilities.
- PO9 – Apply the knowledge and understanding of zoology to one's own and social life.
- PO10 – Gain knowledge of communicable and non-communicable diseases to improve personal and public health.

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## **GOVERNMENT DEGREE COLLEGE - NARASANNAPETA**

### **PROGRAM OUTCOMES 2022-2023**

#### **COMMERCE 2022-2023**





#### **B.COM COMPUTER APPLICATIONS & GENERAL**

##### **Program Outcome:**

-  This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., well trained professionals to meet the requirements.
-  After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company.
-  Capability of the students to make decisions at personal & professional level will increase after completion of this course.
-  Students can independently start up their own Business.
-  Students can get thorough knowledge of finance and commerce.
-  The knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.

##### **BCom Computer Applications (CAP)**

##### **Program Outcome:**

-  To expose students to concepts of commerce.
-  To train the students in the application of computers in various business operation.
-  To impart skills of organization/presentation/analysis and application.
-  To cater to the current needs of the industry in areas of business, finance and computerization



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## DEPARTMENT OF POLITICAL SCIENCE

GOVERNMENT DEGREE COLLEGE NARASANNAPETA

PROGRAM OUTCOMES 2022-2023

DEPARTMENT OF POLITICAL SCIENCE 2022-2023

### Program Outcomes:

After the completion of the B. A. (H.E.P.) Programme, the students will be able to achieve the following outcomes:

#### PO1. Critical Thinking:

Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.

#### PO2. Effective Communication:

Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and by connecting people, ideas, books, media and technology across the World.

#### PO3. Social Interaction:

Elicit views of others, mediate disagreements and help reach conclusions in

Group settings

#### PO4. Effective Citizenship:

Demonstrate empathetic social concern and equity-centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering

#### PO5. Ethics:

Recognize different value systems including that of own, understand the moral dimensions of our decisions, and accept responsibility for them.

#### PO6. Environment and Sustainability:

Understand the issues in the contexts of environmental and sustainable Development.

#### PO7. Self-directed and Life-long Learning:

Acquire the ability to engage in independent and life-long learning, broadest context socio-technological changes.

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### DEPARTMENT OF BOTANY

**Programme Outcomes (POs):** The undergraduate (UG) course offered by the Department of Botany, Government Degree College, and Narasannapeta follows the CBCS syllabus prescribed by the APSCHE. The course is a combination of general and specialized education, simultaneously introducing the concepts of breadth and depth in learning. The fundamental aim of UG course is to produce competent plant biologists who can employ and implement their gained knowledge in basic and applied aspects that will profoundly influence the prevailing paradigm of agriculture, industry, healthcare and environment to provide sustainable development. The present curriculum will not only advance their knowledge and understanding of the subject, but will also increase the ability of critical thinking, development of scientific attitude, handling of problems and generating solution, improve practical skills, enhance communication skill, social interaction, increase awareness in environment related issues and recognize the ethical value system. Additionally the training provided to the students will make them competent enough for doing jobs in Govt. and private sectors of academia, research and industry. Last and not the least to prepare the students for lifelong learning by drawing attention to the vast world of knowledge of plants and introducing them to the methodology of systematic academic enquiry.

1. Understand the basic concepts of Botany in relation to its allied core courses.
2. Perceive the significance of microbes and plants for human welfare, and structural and functional aspects of plants.
3. Demonstrate simple experiments related to plant sciences, analyze data, and interpret them with the theoretical knowledge.
4. Work in teams with enhanced inter-personal skills.
5. Develop the critical thinking with scientific temper.
6. Effectively communicate scientific ideas both orally and in writing.



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**Programme (B.Sc.) Objectives:** The objectives of bachelor's degree programme with Botany are:

1. To provide a comprehensive knowledge on various aspects related to microbes and plants.
2. To deliver knowledge on latest developments in the field of Plant sciences with a practical approach.
3. To produce a student who thinks independently, critically and discuss various aspects of plant life.
4. To enable the graduate to prepare and pass through national and international examinations related to Botany.
5. To empower the student to become an employee or an entrepreneur in the field of Botany /Biology and to serve the nation.

**Domain Subject(Botany) Objectives :**

1. To impart knowledge on origin, evolution, structure, reproduction and interrelationships of microbes and early plant groups.
2. To provide knowledge on biology and taxonomy of true land plants within a phylogenetic framework.
3. To teach aspects related to anatomy, embryology and ecology of plants, and importance of Biodiversity.
4. To explain the structural and functional aspects of plants with respect to the cell organelles, chromosomes and genes, and methods of plant breeding.
5. To develop a critical understanding on SPAC, metabolism and growth and development in plants.
6. To enable the students proficient in experimental techniques and methods of analysis appropriate for various sub-courses in Botany.



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## Domain Subject (Botany) Outcomes:

1. Students will be able to identify, compare and distinguish various groups of microbes and primitive plants based on their characteristics.
2. Students will be able to explain the evolution of tracheophytes and also distribution of plants on globe.
3. Students will be able to discuss on internal structure, embryology and ecological adaptations of plants, and want of conserving Biodiversity.
4. Students will be able to interpret life processes in plants in relation to physiology and metabolism.
5. Students will be able to describe ultra structure of plant cells, inheritance and crop improvement methods.
6. Students will independently design and conduct simple experiments based on the knowledge acquired in theory and practicals of the different sub-courses in Botany.

**Programme Specific Outcomes (PSOs):** The UG curriculum caters an all-round development of the student, rolling out globally ready individuals into the fast pacing world. The programme specific outcome includes:

1. Understanding the nature and basic concepts of all the plant groups, their metabolism, components at the molecular level, biochemistry, taxonomy and ecology.
2. The course will make them aware of natural resources and environment and the importance of conserving it.
3. Hands on training in various fields will develop practical skills, handling equipments and laboratory use along with collection and interpretation of biological materials and data.
4. Knowledge gained through theoretical and lab based experiments will generate technical personnel in various priority areas such as genetics, cell and molecular biology, plant systematics and biotechnology.

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### DEPARTMENT OF HISTORY

#### GOVERNMENT DEGREE COLLEGE NARASANNAPETA

##### PROGRAM OUTCOMES 2022-2023

##### DEPARTMENT OF HISTORY 2022-2023

###### **Program Outcomes:**

After the completion of the B. A. (H.E.P.) Programme, the students will be able to achieve the following outcomes:

###### **PO1. Critical Thinking:**

Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.

###### **PO2. Effective Communication:**

Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and by connecting people, ideas, books, media and technology across the World.

###### **PO3. Social Interaction:**

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## COURSE OUTCOMES





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## DEPARTMENT OF MATHEMATICS-2022-2023

### COURSE OUTCOMES FOR I B.Sc (MPC/MPCS)

#### SEMESTER -I

##### PAPER -I DIFFERENTIAL EQUATIONS

After successful completion of this course, the student will be able to

1. Solve linear differential equation.
2. Convert non exact homogenous equations to exact differential equations  
By using integration factors.
3. Know the methods of finding solutions of differential equations of the  
First order but not of the first degree.
4. Solve higher order linear differential equations, both homogenous, with  
Constant coefficients.
5. Understand the concept and apply appropriate methods for solving  
Differential equations.

#### SEMESTER -II

##### PAPER -II THREE DIMENSIONAL ANALYTICAL SOLID GEOMETRY

After Successful completion of this course, the student will be able to

1. Get the knowledge of planes.
2. Basic idea of lines, Sphere and Cones.
3. Understand the properties of planes, lines, spheres and cones.
4. Express the problems geometrically and then to get the solution.



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## **COURSE OUTCOMES FOR II B.Sc (MPC/MPCS)**

### **SEMESTER -III**

#### **PAPER-III ABSTRACT ALGEBRA**

After Successful completion of this course, the student will be able to

1. Acquire the basic knowledge and structure of groups, subgroups and cyclic groups.
2. Get the significance of the notation of a normal subgroups.
3. Get the behavior of permutations and operations on them.
4. Study the homomorphism and isomorphism with applications.
5. Understand the ring theory concepts with the help of knowledge in group theory and to prove the theorems.
6. Understand the applications of Ring theory in various fields.

### **SEMESTER-IV**

#### **PAPER-IV REAL ANALYSIS**

After successful completion of this course the student will be able to

1. Get the clear idea about the real numbers and real valued functions.
2. Obtain the skills of analyzing the concepts and applying appropriate methods for testing convergence of a sequence/ series.
3. Test the continuity and differentiability and Riemann integration of a function.
4. Know the geometrical interpretation of mean value theorem.





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## COURSE OUTCOMES FOR II B.Sc (MPC/MPCS)

### SEMESTER -IV

#### PAPER-V LINEAR ALGEBRA

After successful completion of this course, the student will be able to

1. Understand the concept of vector spaces, subspaces, basis, dimension and their properties.
2. Understand the concepts of linear transformations and their properties.
3. Apply Cayley-Hamilton theorem to problems for finding the inverse of a matrix and higher powers of matrices without using routine methods
4. Learn the properties of inner product spaces and determine orthogonality in inner product spaces.

## COURSE OUTCOMES FOR III B.Sc (MPC/MPCS)

### SEMESTER -V

## LONG TERM INTERNSHIP



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## COURSE OUTCOMES FOR III B.Sc (MPC/MPCS)

### SEMESTER-VI

#### Course-6B: Multiple integrals and applications of Vector Calculus

(Skill Enhancement Course (Elective), 5 credits)

After successful completion of this course the student will be able to

1. Learn multiple integrals as a natural extension of definite integral to a function of two variables in the case of double integral / three variables in the case of triple integrals.
2. Learn applications in terms of finding surface area by double integral and volume by triple integral.
3. Determine the gradient, divergence and curl of a vector and vector identities.
4. Evaluate line, surface and volume integrals.
5. Understand relation between surface and volume integrals (Gauss divergence theorem), relation between line integral and volume integral (Green's theorem), relation between line and surface integral (Stokes theorem).

#### Course- 7B: Integral transforms with applications

After successful completion of this course the student will be able to

1. Evaluate Laplace transforms of certain functions, find Laplace transforms of derivatives and of integrals.
2. Determine properties of Laplace transform which may be solved by application of special functions namely Dirac delta function, error function, Bessel function and periodic function.
3. Understand properties of inverse Laplace transforms, find inverse Laplace transforms of derivatives and of integrals.
4. Solve ordinary differential equations with constant/ variable coefficients by using Laplace transform method.
5. Comprehend the properties of Fourier transforms and solve problems related to finite Fourier transforms.

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## DEPARTMENT OF ZOOLOGY

### COURSE OUTCOMES OF B.SC(CBZ) 2022-23

GOVERNMENT DEGREE COLLEGE, NARASANNAPETA

#### SEMESTER I

##### **Paper - I : Animal Diversity – Biology of Non chordates**

**By the completion of the course the graduate should able to**

- CO1 : Describe general taxonomic rules on animal classification
- CO2 : Classify Protozoa to Coelenterata with taxonomic keys
- CO3 : Classify Phylum Platy helminthes to Annelida phylum using examples from parasitic adaption and vermin composting.
- CO4 : Describe Phylum Arthropoda to Mollusca using examples and importance of insects and Molluscs.
- CO5 : Describe Echinodermata to Hemi chordate with suitable examples and larval stages in relation to the phylogeny.

#### SEMESTER II

##### **Paper -II : Animal Diversity – Biology of Chordates**

**By the completion of the course the graduate should able to**

- CO1 : Describe general taxonomic rules on animal classification of chordates
- CO2 : Classify Protochordata to Mammals with taxonomic keys
- CO3 : Understand Mammals with specific structural adaptations
- CO4 : Understand the significance of dentition and evolutionary significance
- CO5 : Understand the origin and evolutionary relationship of different Phyla from Prochordata to mammalian.

#### SEMESTER III

##### **Paper -III : CELL BIOLOGY, GENETICS, MOLECULAR BIOLOGY AND EVOLUTION**

**By the completion of the course the graduate should able to**

- CO1 : To understand the basic unit of the living organisms and differentiate the organisms by their cell structure
- CO2 : Describe fine structure and function of plasma membrane and different cell organelles of eukaryotic cell
- CO3 : To understand the history of origin of branch of genetics, gain knowledge to heredity, interaction of genes, various types of inheritance patterns existing in animals
- CO4 : Acquiring in depth knowledge on various aspects of genetics involved in sex determination, human karyotyping and mutations of chromosomes resulting in various disorders.





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CO5 : Understand the central dogma of molecular biology and flow of genetic information from DNA to proteins

CO6 : Understand the principles and forces of evolution of life on earth, the process of evolution of new species and apply the same to develop new and advanced varieties of animals for the benefit of the society.

## SEMESTER IV

### **Paper- IV : ANIMAL PHYSIOLOGY, CELLULAR METABOLISM AND EMBRYOLOGY**

**By the completion of the course the graduate should be able to**

CO1 : Understand the function of important animal physiological systems including digestion, cardio-respiratory and renal system

CO2 : Understand the muscular system and the neuro-endocrine regulation of animal growth, development and metabolism with a special knowledge of hormonal control of human reproduction.

CO3 : Describe the structure, classification and chemistry of the biomolecules and enzymes responsible for sustenance of life in living organisms.

CO4 : Develop broad understanding the basic metabolic activities pertaining to the catabolism and anabolism of various biomolecules.

CO5 : Describe the key events in early embryonic development starting from the formation of gametes up to gastrulation and formation of primary germ layers.

### **Paper-V : IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY**

**By the completion of the course the graduate should be able to**

CO1 : To get knowledge of the organs of the immune system, types of immunity, cells and organs of immunity.

CO2 : To describe the immunological response as to how it is triggered (antigen) and regulated (antibodies)

CO3 : Understand the application of Biotechnology in the fields of industry and agriculture including animal cell/tissue culture, stem cell technology and genetic engineering.

CO4 : Get familiar with the tools and techniques of animal biotechnology.

## SEMESTER V

### **LONG TERM INTERNSHIP**





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## SEMESTER VI

**Paper Title : Sustainable Aqua culture Management (6A)**

**By the completion of the course the graduate should able to**

- CO1 : To improve scientific, technical and vocational skills required in the area of employment
- CO2 : Fisheries industry & Aquaculture management
- CO3 : Improve practical skills such as fish surveying. Fish husbandry
- CO4 : Identification and treatment of diseases and prevention methods

**Paper Title : Post Harvest Technology Of Fish & Fisheries(7A)**

- CO1 : Learn about Handling and principles of fish preservation
- CO2 : The gain knowledge about processing of fish food
- CO3 : Understand the importance of sanitation and quality control
- CO4 : To raise knowledge quality assurance and management and certification

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## Course Outcomes for III B.Sc (CBZ) 2022-23

### SEMESTER – V

### LONG TERM INTERNSHIP

### SEMESTER – VI

### Skill Enhancement Courses (SECs) for Semester V from 2022-23

<p><b>Skill Enhancement Courses(SECs) for Semester V from 2022-23</b></p> <p><b>SEMESTER –V :</b></p> <p><b>Course-6A: Plant Propagation</b></p>	<p>On successful completion of this practical course, student will be able to:</p> <ul style="list-style-type: none"> <li>• Make use of different plant propagation structures for plant multiplication.</li> <li>• Explore the specialized organs or asexual propagules in some plants for their proliferation.</li> <li>• Demonstrate skills on micropropagation of plants through vegetative propagation techniques.</li> <li>• Evaluate and use a suitable propagation technique for a given plant species.</li> </ul>
<p><b>Course 6A- Practical syllabus of Plant Propagation</b></p>	<p>On successful completion of this practical course, student will be able to:</p> <ul style="list-style-type: none"> <li>• Make use of different plant propagation structures for plant multiplication.</li> <li>• Explore the specialized organs or asexual propagules in some plants for their proliferation.</li> <li>• Demonstrate skills on micropropagation of plants through vegetative propagation techniques.</li> <li>• Evaluate and use a suitable propagation technique for a given plant species.</li> </ul>
<p><b>Course 7A- Seed Technology</b></p>	<p>Students at the successful completion of the course will be able to:</p> <ul style="list-style-type: none"> <li>• Explain the causes for seed dormancy and methods to break dormancy.</li> <li>• Understand critical concepts of seed processing and seed storage procedures.</li> <li>• Acquire skills related to various seed testing methods.</li> <li>• Identify seed borne pathogens and prescribe methods to control them.</li> <li>• Understand the legislations on seed production and procedure of seed certification.</li> </ul>



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<b>Course 7A- Practical syllabus of Seed Technology</b>	<p>On successful completion of this practical course, student will be able to:</p> <ul style="list-style-type: none"> <li>• Demonstrate skills on various methods to break the seed dormancy.</li> <li>• Determine seed moisture, seed germination percentage, seed viability and vigour.</li> <li>• Identify the seed borne pathogens and prescribe methods to prevent or control them.</li> <li>• Evaluate various methods to produce healthy seeds.</li> </ul>
<b>Course 6B: Vegetable Crops – Cultivation Practices</b>	<p>Students at the successful completion of the course will be able to:</p> <ul style="list-style-type: none"> <li>• Identify different vegetable plants and realize their value in human nutrition.</li> <li>• Analyse the types of soils to cultivate vegetable crops.</li> <li>• Demonstrate skills on agronomic practices for cultivation of vegetable crops.</li> <li>• Acquire knowledge on water, weed and disease managements in vegetable farming.</li> <li>• Comprehend aspects related to harvesting and storage of produce.</li> </ul>
<b>Course6B: Practical syllabus of Vegetable Crops -Cultivation Practices</b>	<p>On successful completion of this practical course, student will be able to:</p> <ul style="list-style-type: none"> <li>• List out, identify and handle different garden implements.</li> <li>• Identify the important vegetable crops grown in their locality.</li> <li>• Demonstrate various skills in cultivation of vegetable crops.</li> <li>• Identify pests, diseases and their remedies that are specific to a vegetable crop.</li> </ul>
<b>Course 7B: Vegetable Crops – Post Harvest Practices</b>	<ul style="list-style-type: none"> <li>• Students at the successful completion of the course will be able to:</li> <li>• Understand various practices for vegetable produce from harvesting to marketing.</li> <li>• Demonstrate skills on storage, processing and preservation of vegetables.</li> <li>• Summarize causes for spoilage of vegetables before and during storage and methods to prevent and control them.</li> <li>• Make use of preservation methods to reduce the loss of vegetable produce.</li> <li>• Explain about value added products, packaging and marketing of vegetables.</li> </ul>





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<b>Course 6B: Vegetable Crops – Cultivation Practices</b>	<p>Students at the successful completion of the course will be able to:</p> <ul style="list-style-type: none"> <li>• Identify different vegetable plants and realize their value in human nutrition.</li> <li>• Analyse the types of soils to cultivate vegetable crops.</li> <li>• Demonstrate skills on agronomic practices for cultivation of vegetable crops.</li> <li>• Acquire knowledge on water, weed and disease managements in vegetable farming.</li> <li>• Comprehend aspects related to harvesting and storage of produce.</li> </ul>
<b>Course 6B: Practical syllabus of Vegetable Crops -Cultivation Practices</b>	<p>On successful completion of this practical course, student will be able to:</p> <ul style="list-style-type: none"> <li>• List out, identify and handle different garden implements.</li> <li>• Identify the important vegetable crops grown in their locality.</li> <li>• Demonstrate various skills in cultivation of vegetable crops.</li> <li>• Identify pests, diseases and their remedies that are specific to a vegetable crop.</li> </ul>
<b>Course 7B: Vegetable Crops – Post Harvest Practices</b>	<p>Students at the successful completion of the course will be able to:</p> <ul style="list-style-type: none"> <li>• Understand various practices for vegetable produce from harvesting to marketing.</li> <li>• Demonstrate skills on storage, processing and preservation of vegetables.</li> <li>• Summarize causes for spoilage of vegetables before and during storage and methods to prevent and control them.</li> <li>• Make use of preservation methods to reduce the loss of vegetable produce.</li> <li>• Explain about value added products, packaging and marketing of vegetables.</li> </ul>





# GOVERNMENT DEGREE COLLEGE

NARASANNAPETA-SRIKAKULAM DIST.-532421.

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	products and marketing
<b>Course 7C: Practical syllabus of Mushroom Cultivation</b>	<p>On successful completion of this practical course, student will be able to:</p> <ul style="list-style-type: none"> <li>Identify and discriminate different mushrooms based on morphology.</li> <li>Understand facilities required for mushroom cultivation.</li> <li>Demonstrate skills on preparation of spawn, compost and casing material.</li> <li>Exhibit skills on various cultivation practices for an edible mushroom</li> </ul>
<b>Course 6D: Gardening and Landscaping</b>	<p>Students at the successful completion of the course will be able to:</p> <ul style="list-style-type: none"> <li>Acquire a critical knowledge about the aesthetic value, types and styles of gardens.</li> <li>Perform filed operations in a garden by understanding the role of a gardener.</li> <li>Identify various ornamental plants and explain the growth habits.</li> <li>Propagate garden plants through various propagation techniques.</li> <li>Demonstrate skills of designing and developing a garden.</li> </ul>
<b>Course 6D: Practical syllabus of Gardening and Landscaping</b>	<p>On successful completion of this practical course, student will be able to:</p> <ul style="list-style-type: none"> <li>Perform various skills related to gardening.</li> <li>Identify the living and non-living components required for garden development.</li> <li>Identify the pests and diseases of garden plants and control the same.</li> <li>Demonstrate skills of making bonsai and developing lawn.</li> <li>Make landscape design using CAD.</li> </ul>
<b>Course 7D-Agroforestry</b>	<p>Students at the successful completion of the course will be able to:</p> <ul style="list-style-type: none"> <li>Understand the concepts and economic value of agroforestry.</li> <li>Acquire a critical knowledge on systems and design of agroforestry.</li> <li>Explain silviculture practices in relation to agroforestry.</li> <li>Understand the role of agroforestry to reclaim the waste lands.</li> <li>Perform skills in relation to tree measurement techniques.</li> </ul>

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