



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்
MANONMANIAM SUNDARANAR UNIVERSITY

**SYLLABUS FOR DIPLOMA IN PANCHAGAVYA SCIENCE
PROGRAM OFFERED THROUGH DIRECTORATE OF VOCATIONAL
EDUCATION (COMMUNITY COLLEGES AND VOCATIONAL SKILL
DEVELOPMENT CENTRES) FROM 2019 - 2020**



கல்விசார் நிலைக்குழுக் கூட்டம்

**MEETING OF THE STANDING COMMITTEE ON
ACADEMIC AFFAIRS HELD ON FRIDAY
THE 28th JUNE 2019**

DIPLOMA IN PANCHAGAVYA SCIENCE

பஞ்சகவ்யம் அறிவியல் பட்டயம்

SCHEME OF EXAMINATION

Subject Code	Title of the Course	Credit	Hours	Passing Minimum
SEMESTER I				
C19PG11/E19PG01	Principles & Philosophy of Panchagavya	6	90	40/100
C19PG12/E19PG02	Human Anatomy, Physiology & Pathology	6	90	40/100
C19PG13/E19PG03	Panchagavya Human Care	6	90	40/100
C19CE10/E19CE10	Communicative English	6	90	40/100
C19PGP1/E19PGP1	Practical I-Goshala Seva and Activites	4	120	40/100
SEMESTER II				
C19PG21/E19PG04	Panchagavya & Natural Farming	6	90	40/100
C19PG22/E19PG05	Panchagavya Products Preparation	6	90	40/100
C19LS23/E19LS05	Life Skill	6	90	40/100
C19PGP2/E19PGP2	Practical II- Panchagavya Products Preparation	4	120	40/100
C19PGPW/E19PGPW	Internship	10	150	40/100

Eligibility for admission: Pass in 10thStd examination conducted by the Govt. of Tamil Nadu Board of Secondary Education, Government of Tamil Nadu or any other equivalent examination, Pass in X Std with Diploma / ITI or any other equivalent.

Examination: Passing Minimum for each Course is 40%. Classification will be done on the basis percentage marks of the total marks obtained in all the Courses and as given below:

40% but less than 50%	-	Third class
50% but less than 60%	-	Second class
60% and above	-	First class

Theory Paper

Internal Marks-25

External Marks-75

SYLLABUS**Semester I**

Course I	:	Principles & Philosophy of Panchagavya
Course II	:	Human Anatomy, Physiology & Pathology
Course III	:	Panchagavya Human Care
Course IV	:	Communicative English
Course V	:	Practical I Goshala Seva and Activites

Semester II

Course VI	:	Panchagavya & Natural Farming
Course VII	:	Panchagavya Products Preparation
Course VIII	:	Life Skill
Course IX	:	Practical II - Panchagavya Products Preparation Course
Course X	:	Internship

***(Semester Pattern for Community College Only)**

Program Objectives

- To face and Rectify the impact of today's consumeristic life style especially chemical agriculture on environment and health. It is essential to conduct courses and programmes on Traditional Pancha Gavya and Techniques and science.

Semester I Course I

(C19PG11/E19PG01) Principles & Philosophy of Panchagavya

Objectives

- For getting a clear introduction about Panchagavya for a better understanding of its impact on human health and agriculture in terms of efficiency, economy and environment.
- For this purpose we need to study the differences between indigenous cows and foreign cross breed varieties and the impact of their milk and other products in the above said areas.

Unit I

18 hrs

Introduction to Panchagavya: Principles & Philosophy of Panchagavya, Origin & History of Gomatha, Goshala Structure and Maintenance, Collection of Gavyas, Relationship between Gavyas and Panchaboothas.

Unit II

18 hrs

Gomatha & Panchagavya: Position of Gomatha in Indian Culture, Various Types of Gomathas, Properties of Various Breeds of Gomathas, Difference between Gomatha & Foreign Cross Breed Cows, Collection Techniques of Gavyas from Gomathas, Storage Technique of Gavyas.

Unit III

18 hrs

Panchagavya Preparations: Preparation of Panchagavya, Navagavya, Dhasagavya and other Gavya Products.

Unit IV

18 hrs

Uses of Panchagavya: Benefits & Uses of Panchagavya in Cultivation, Medicinal Benefits and Uses of Gavya Products in Human Care System, Panchagavya Products Usage for Household Requirements, Uses of Gavyas and Gavya Products in Different Ailment Chikitsas, Legality & Validity of Practice of Panchagavya Alternative Medicines.

Unit V:

18 hrs

Comparative Analysis: Empirical Systems of Treatments in Health Care Systems, Treatment by Distance Mode by Panchagavya, Patients Behaviour Pattern, Major Systems and Approaches towards Ailments, Comparative Analysis of Different Systems with Panchagavya Treatment.

References:

- Panchagavya - A Manual - K. A. Natarajan
- Research Activities of Go Vigyan Anusanthan Kendra

Course II
(C19PG12/E19PG02)**Human Anatomy, Physiology & Pathology**

Objectives

- It is very important to understand reestablish the time proven science of Panchagavya in Human Health Care.
- Hence it becomes very essential to first study the Human Anatomy, Physiology and Pathology.

Unit I

18 hrs

Introduction: Brief History of Evolution of Human Life, Definitions and Understanding of Human Anatomy, Physiology & Pathology.

Unit II

18 hrs

Anatomy: Cells & Tissues, Basic Structures of Various Organ Systems, Skeletal System, Skin, Nail & Hair, Nervous System, Respiratory System, Circulatory System, Digestive System, Urinary System, Endocrine System, Reproductive System, Body Defence System.

Unit III

18 hrs

Physiology: Functions of Cells and Tissues, Basic Functions of All Systems - Nervous System, Respiratory System, Circulatory System, Digestive System, Urinary System, Endocrine System, Reproductive System, Body Defence System.

Unit IV

18 hrs

Pathology: Personal Health & Hygiene, Free Radical Paradigm, Infectious Agents, Pathological Conditions of Organs and their Systems, Creation of Multiple Problems.

Unit V

18 hrs

Health Solutions: Winning the Battle, Body Defences, Natural Solution to Free Radicals, Stopping Free Radicals Before they Start, Toward a Disease Free Society, Concept of Handling Multiple Problems.

References:

- Foundation of Anatomy and Physiology – ROSS AND WILSON
- Human Physiology-SARADA SUBRAMANIYAM

Course III

(C19PG13/E19PG03)Panchagavya Human Care

Objectives

- In the current chemically polluted world it is an emergency to re establish the traditional time proven Health Care Systems which can cure many diseases using value added and processed cow products like Panchagavya.

Unit I

18 hrs

Introduction: Theory of Cell Formation, Concept of Immune System and Toxins, Loading of Toxins in Human System, Formation and Growth of Free Radicals in Human, Concept of Big-War in Human Body, Moving Towards Immune Power through Panchagavya Therapy.

Unit II

18 hrs

Panchagavya for Human Healthcare: Theory of Sickness, Theory of Bio-Electric, Bio-Chemic, Psychogenic, Theory of Energy Flow in Human Body, Theory of Five Elements, Vital Organ Theories, Organ Clock Theory, Integration and Application of Various Theories in Panchagavya Therapy.

Unit III

18 hrs

Applications of Gavya Products: Gavya Products of Acute and Chronic Problems, First Aid Through Panchagavya, Uses of Gavya Products for Children Common Problems, Gavya Products for Male and Female Genital Problems, Gavya Products for Critical Problems.

Unit IV

18 hrs

Uses of Gavya Products for Human Care: Cosmetic Uses of Gavya Products, Internal and External Application of Gavya Products, Integral Uses of Gavya Products for Curative & Preventive of Diseases, Gavya Products for Promotive of Human Health.

Unit V

18 hrs

Healthcare Solutions by Panchagavya: Common Usages of Gavya Products to Uncommon Ailments, Gavya Products for Tackling Problems of Heart, Liver, Spleen, Pancreas, Stomach, Lungs, Kidney, Gall Bladder, Bones, Skin, Genitals, Endocrines, Mind and Nerves, Ear, Nose, Throat, Eye and Hormonal Imbalance.

References:

- Panchagavya Ayurveda Sigichai - Go Vigyan Anusanthan Kendra
- Research Activities of Go Vigyan Anusanthan Kendra

Course IV
(C19CE10/E19CE10) Communicative English

1. Basic Grammar:

- a. Review of grammar
- b. Remedial study of grammar
- c. Simple sentence
- d. Word passive voice etc.

2. Bubbling Vocabulary:

- a. Synonyms
- b. Antonyms
- c. One – work Institution

3. Reading and Understanding English

- a. Comprehension passage
- b. Précis – writing
- c. Developing a story from hints.

4. Writing English

- a. Writing Business letters.
- b. Paragraph writing
- c. Essay writing
- d. Dialogue writing

5. Speaking English

- a. Expressions used under different circumstances
- b. Phonetics

Reference

1. V.H.Baskaran – “English Made Easy”
2. V.H.Baskaran – “English Composition Made Easy”
(Shakespeare Institute of English Studies, Chennai)
3. N.Krishnaswamy – “Teaching English Grammar”
(T.R.Publication, Chennai)
4. “Life Skill” – P.Ravi, S.Prabakar and T.Tamzil Chelvam,
M.S.University, Tirunelveli.

Course V
Practical I

(C19PGP1/E19PGP1)**Goshala Seva and Activites**

List of Exercises

1. Studying the structural design of Goshala and its significance.
2. Study of various indigenous cow varieties and their significance related to local environmental conditions.
3. Study of foreign cross breed varieties of cows.
4. Study of differences between local and foreign cross breeds and the hazards happening to Human Health due to consumption of cross breed cow's milk.
5. Maintenance of Goshala.
6. Feeding and watering Cows.
7. Milking practice.
8. Health checkups and maintenance of cows.
9. Study of Poojas and Rituals being conducted at Goshala.
10. Record Keeping.

**Semester II
Course VI**

(C19PG21/E19PG04)Panchagavya & Natural Farming

Objectives

- In today's agricultural scenario it is very essential to reduce the cost of cultivation and increase the productivity and thus restoring the Agro Economy.
- It is also an emergency to stop the usage of hazardous chemicals in agriculture which are not only spoiling the health of the consumer but also the whole environment by polluting air, soil and water.
- This can be achieved only by replacing the chemicals with natural agro inputs like Panchagavya and other cow products .

Unit I

18 hrs

Introduction: Concept of Natural Farming, Understanding Principles of Natural Farming, Panchagavya Natural Protection of Soil and Crops, Uses of Panchagavya in Natural Farming, Micro and Macro Organisms in Soil and Crops Protection.

Unit II

18 hrs

Types of Natural Farming: Natural Farming, Organic Farming, Agriculture, Permaculture, Vedic Agriculture, Spiritual Agriculture, Sustainable Agriculture, Zero Budget Cultivation, Raised Bed Models in Farming, Namazhvar, Subash Palekar and Other Models in Farming.

Unit III

18 hrs

Integral Natural Farming: Concept of Integral Natural Farming, Benefits and Uses of Natural Farming, Moving Towards Self Sustainable Farming, Soil Fertility and Natural Farming, Winning the Battle with Panchagavya.

Unit IV

18 hrs

Cropping Systems: Concept of Agriculture, Horticulture, Floriculture, Sericulture, Auromaticulture, Mono Cropping System, Poly Cropping System, Multiple Cropping System, Mixed Cropping System, Bio-Diversity, Eco-Friendly Plantation Model, Fruit Forestry, Social Forestry, Herbal Plantations, Harvesting Pancha Boodhas.

Unit V

18 hrs

Uses of Gavyas in Natural Farming: Applications of Gavyas in Preparation of Panchagavya, Jeevarmirtham, Ganajeevamirtham, Beejamirtham, Vermicompost, Fish Amino Amilam, Neem Asthra, Brahmastra, Agni Astra, Mudpot Sedithailam, Arappu Moru Karaisal, Herbal Poochi Veratti, Themoru Karaisal, Pazhakaadi, Turmeric Ginger Chilly Karaisal, Tulsi Leaf Karaisal, Concept of Gunabam by Virutchha Ayurveda, Preparations of EM Solutions.

References:

- The Principles of Spiritual Farming - Subash Palekar
- The Symbiosis of Spiritual Farming - Subash Palekar
- New Lessons in Natural Farming - R. S. Narayanan
- Eyarkai Velanmayil Uyir Ootangal - R. S. Narayanan
- Surabalar Aruliya Virutchha Ayurvedam - R. S. Narayanan

Course VII

(C19PG22/E19PG05)Panchagavya Products Preparation

Objectives

- It is very important to understand the methods of collection of cow urine, dung and milk and also preparation, value addition, storage and application of various cow products such as Panchagavya in a very scientific way as these are used for Human Health Care.

Unit I

18 hrs

Introduction: Basic Principles & Ideology of Panchagavya, Characteristics of Gavya, Various Types of Products of Gavyas, Benefits and Uses of Panchagavya Products from Different Angles.

Unit II

18 hrs

Collection of Gavyas: Collecting Techniques of Gavyas, Storage Techniques of Gavyas, Keeping Five Gavyas in Liquid Form, Keeping Five Gavyas in Solid Form, Relationship between Period Storage of Gavyas and Power of Gavyas.

Unit III

18 hrs

Gavya Products Processing Techniques: Distillations, Herbal Mixings, Kashayam Preparations, Fermentations, Preparation of Various Types of Gomutra Distillate, Preparation of Various Types of Gomutra Ganvatis, Preparation of Gavya Ointment, Preparation of Spray Types of Gavya Products, Preparation of Churna Types of Gavya Products, Preparation of Gavya Eye Drops, Ear Drops and Nasal Drops.

Unit IV

18 hrs

Health Solutions: Natural Solutions to Toxins and Free Radicals with Gavya Products, Winning the Battle, Body Defences, Concept of Handling Multiple Problems with Panchagavya Products.

Unit V

18 hrs

Application of Gavya Products: Application of Integral Approaches in Panchagavya Therapy, Theory of Cause and Effect, Dealing with Causes of Diseases - Disorders with Gavya Products.

References:

- Panam Kuvikkum Panchagavya - Dr. K. Natarajan
- Naatu Pasukkal Naatin Selvam - R. S. Narayanan

Course VIII

(C19LS23/E19LS05)Life Skill

I Life Coping or adjustment

- (a) External and internal influence in one's life
- (b) Process of coping or adjustment
- (c) Coping with physical change and sexuality
- (d) Coping with stress, shyness, fear, anger far live and criticism.

II Attitude

- (a) Attitude
- (b) Self acceptance, self – esteem and self actualization
- (c) Positive thinking

III Problem Solving

- (a) Goal Setting
- (b) Decision Making
- (c) Time Management and stress Management.

IV Computers

- (a) Introduction to Computers
- (b) M.S.Office
- (c) Power Point

V Internet

- (a) Introduction to internet
- (b) E – mail
- (c) Browsing

References

- 1) Life Skill Programme course I & II by Dr. Xavier Alphona MCRDCE Publications. R.K.Mutt Road, Chennai – 28
- 2) ஆளுமை பண்பு வளர்த்தல் மற்றும் தகவல் தொடர்பு by M.Selvaraj Community College,Palayamkottai
- 3) “Life Skill” –P.Ravi, S.Prabahar & T.Tamil Chelvam, M.S. University, Tirunelveli

**Course IX
Practical II**

(C19PGP2/E19PGP2)Panchagavya Products Preparation

List of exercises

1. Maintenance of Goshala.
2. Maintenance of cows.
3. Collection and storage of Cow Urine and Dung.
4. Preparation and storage of Panchagavya.
5. Preparation and storage of various traditional medicines using cow urine, dung and Panchagavya.
6. Study of Human Health based on Traditional Health Science.
7. Diagnosis of Human Health Conditions based on Traditional Health Care methods.
8. Usage of Cow Urine and Panchagavya based medicines in Human Health Care.
9. Usage of Panchagavya based medicines in Cattle Health Care.
10. Record Keeping.

**Course X
(E19PGPW/C19PGPW)Internship**
