

SRI VENKATESWARA UNIVRRSITY: TIRUPATI
B.VOC (HORTICULTURE)
Under CBCS W.E.F.2021-2022
COURSE STRUCTURE
SEMESTER-III

S.. NO	Skill / general education	Courses	Title of the paper/course and code	Credit s per course	Hours /week	Total hours/ course	Marks		
							Internal	Extern al	Total
1	General Education Component Gen.Edu	Language	General English	03	04	60	25	75	100
2		Life Skills	Health and Hygiene	02	02	30	---	50	50
3			Personality Enhancement and Leadership	02	02	30	---	50	50
4		Skill Developm ent Course	Environmental Audit	02	02	30	----	50	50
5	Domain Skill Component	CORE-I	Introduction to soli science	04	04	60	25	75	100
6		PRACTI CAL-1	Introduction to soli science	02	02	30	---	50	50
7		CORE-II	Diseases of horticulture crops and their management	04	04	60	25	75	100
8		PRACTI CAL-II	Diseases of horticulture crops and their management	02	02	30	--	50	50
9		CORE- III	Production technology of vegetable crops	04	04	60	25	75	100
10		PRACTI CAL-III	Production technology of vegetable crops	02	02	30	---	50	50
11		Industrial Training For 30 Days			03	36	144	---	50
				30	TOTAL MARKS			750	

SRI VENKATESWARA UNIVERSITY
B.A. / B.Com. / B.Sc. / B.Voc. DEGREE COURSE IN ENGLISH
SEMESTER-III
(Revised Syllabus Under CBCS W.E.F. 2021-22)
ENGLISH PRAXIS COURSE - III
A COURSE IN CONVERSATIONAL SKILLS

I. UNIT		
Speech Skills	: 1. Tryst with Destiny : 2. Greetings : 3. Introductions	Jawaharlal Nehru
II. UNIT		
Speech Interview Skills	: 1. Yes, We Can : 2. A Leader Should Know How to Manage Failure : 3. Requests	Barack Obama Dr.A.P.J.Abdul Kalam/ India Knowledge at Wharton
III. UNIT		
Interview Skills	: 1. Nelson Mandela's Interview : 2. Asking and Giving Information : 3. Agreeing and Disagreeing	With Larry King
IV. UNIT		
Interview Skills	: 1. JRD Tata's Interview : 2. Dialogue Building : 3. Giving Instructions/Directions	With T.N.Ninan
V. UNIT		
1. Speech Skills	: 1. You've Got to Find What You Love : 2. Debates : 3. Descriptions : 4. Role Play	Steve Jobs

Approved by BOS (PASS)
W.E.F. 2020-2021

M. S. S. S. S.
3/19/2020
Chairperson
BOS in English
(PASS)

SRI VENKATESWARA UNIVERSITY
B.A./B.Com./B.Sc. B.Voc./DEGREE EXAMINATION
III SEMESTER
(Revised Syllabus under CBCS w.e.f. 2021-22)
ENGLISH PRAXIS COURSE – III
A COURSE IN CONVERSATIONAL SKILLS
MODEL QUESTION PAPER

Time: 3 Hours

Max. Marks: 75

- I Answer any THREE of the following questions. (3x5=15)
- a. What according to Pandit Nehru, the tryst with destiny that Indian made?
 - b. How do you greet people in formal, informal and semi-formal ways?
 - c. Who according to the author is "The greatest man of our generation". What is his ambition?
 - d. Imagine that you are working at S.V. Degree College as a Lecturer. How do you introduce your friend to the Principal ?
 - e. How do you introduce yourself to your Lecturer on the first day of your college?
- II Answer any THREE of the following questions. (3x5=15)
- a. Summarize Obama's speech "Yes, We can".
 - b. What did A.P.J. Abdul Kalam say about success?
 - c. Write a critical analysis of Obama's Victory Speech.
 - d. How did A.P.J. Abdul Kalam handle failure?
 - e. Imagine that you have to pay the college tuition fee. How do you make a request with your parents to pay your tuition fee?

III Answer any THREE of the following questions. (3x5=15)

- a. Summarize Nelson Mandela's Interview with Larry King.
- b. Imagine that you are leaving for Mumbai. You seek information on the arrival of the train.
- c. Write a note on Nelson Mandela.
- d. How do you give information when a stranger approaches you to help him for the admission in your college?
- e. Give two phrases for agreeing and two phrases for disagreeing.

IV Answer any THREE of the following questions. (3x5=15)

- a. Is Mr. Ratan Tata an angry person? What has been the greatest frustration of him?
- b. Construct a dialogue between two friends about their career.
- c. What is the opinion of Mr. Ratan Tata on Reliance Industries?
- d. Write instructions to prepare coffee.
- e. How do you direct when your junior requests you to show the way to Tirumala bus stand?

V Answer any THREE of the following questions. (3x5=15)

- a. What was the message of you've got to find what you love?
- b. What is a debate? How does it help students?
- c. What did Steve Jobs love to do?
- d. Describe your native place.
- e. What are the benefits of Role plays?



(Dr M. Sreelatha),
Chairperson,
BOS in English (PASS).

SRI VENKATESWARA UNIVERSITY
B.VOC. DEGREE COURSE IN HORTICULTURE
Life Skill Course
HEALTH & HYGIENE
III-SEMESTER-W.E.F.2021-22

(Total teaching hours – 30 Hrs. @ 02 Hrs. per Week)

The course is designed to provide a complete guidance on health and hygiene systems, guidelines for implementing and role of government and public in maintaining a healthy life. At the end of the course the student shall be able to understand –

- the importance of health and hygiene in life
- the importance of nutrition for a healthy life
- different health care programmes of India
- basic concept of health impact assessment as a means of assessing the policies, plans and projects using quantitative and qualitative techniques
- importance of community and personal health & hygiene measures
- Importance of food, social tenets, mental condition, physical activity on health

Learning Objectives:

- To provide knowledge on different health indicators and types of hygiene methods
- To impart knowledge on different health care programmes taken up by India
- To make student understand the latest concepts of health such as HIA, EIA, SIA and SEA
- To enable student with disaster mitigation strategies
- To create awareness on community health and hygiene
- To enrich knowledge on communicable and non-communicable diseases and their control
- To aware the student on the importance of food, social strategies, mental status and physical activities on health
- To introduce different community-based mobile apps on health to student and thereby to the community

Learning / Course Outcomes: On completion of this course, the students will be able to understand -

- What is a healthy diet
- How can we use available information to optimize our diet?
- Can nutrition be used for a healthy life?
- Is there a one-size-fits-all “good” diet or should we individualize our dietary goals?
- Disaster management and responsiveness of public in pandemic and epidemic diseases
- Assess the impact of policies on health and hygiene Health measures to consider while travelling
- Awareness in public through digital media viz., mobile apps

Unit I: Basics of Nutrition**10 Hrs.**

1. Nutrition – definition, importance, Good nutrition and mal nutrition; Balanced Diet: Basics of Meal Planning
2. Carbohydrates –functions, dietary sources, effects of deficiency.
3. Lipids –functions, dietary sources, effects of deficiency.
4. Proteins –functions, dietary sources, effects of deficiency.
5. Brief account of Vitamins- functions, food sources, effects of deficiency,
6. Macro and micro minerals –functions, effects of deficiency; food sources of Calcium, Potassium and Sodium; food sources of Iron, Iodine and Zinc
7. Importance of water– functions, sources, requirement and effects of deficiency.

Unit II: Health**10 Hrs.**

8. Health - Determinants of health, Key Health Indicators, Environment health & Public health; Health-Education: Principles and Strategies
9. Health Policy & Health Organizations: Health Indicators and National Health Policy of Govt. of India-2017; Functioning of various nutrition and health organizations in India viz., NIN (National Institution of Nutrition), FNB (Food and Nutrition Board), ICMR (Indian Council of Medical Research), IDA (Indian Dietetics Association), WHO-India, UNICEF-India
10. National Health Mission: National Rural Health Mission (NRHM) Framework, National Urban Health Mission (NUHM) Framework
11. Women & Child Health Care Schemes: Reproductive, Maternal, Newborn, Child and Adolescent Health (RMNCH+); Janani Shishu Suraksha Karyakaram (JSSK); Rashtriya Bal Swasthya Karyakram(RBSK); India Newborn Action Plan (INAP); Adolescent Health- Rashtriya Kishor Swasthya Karyakram (RKSK)
12. Disaster Management – Containment, Control and Prevention of Epidemics and Pandemics – Acts, Guidelines and Role of Government and Public

Unit III: Hygiene

10 Hrs.

13. Hygiene – Definition; Personal, Community, Medical and Culinary hygiene; WASH (WAter, Sanitation and Hygiene) programme
14. Rural Community Health: Village health sanitation & Nutritional committee (Roles & Responsibilities); About Accredited Social Health Activist (ASHA); Village Health Nutrition Day, Rogi Kalyan Samitis
15. Community & Personal Hygiene: Environmental Sanitation and Sanitation in Public places
16. Public Awareness through Digital Media - An Introduction to Mobile Apps of Government of India: NHP, Swasth Bharat, No More Tension, Pradhan Mantri Surakshit Mantritva Abhiyan (PM Suman Yojana), My Hospital (Mera aspataal), India fights Dengue, JSK Helpline, Ayushman Bhava, Arogya Setu, Covid 19AP

REFERENCES

- **Bamji, M.S., K. Krishnaswamy & G.N.V. Brahmam (2009)** *Textbook of Human Nutrition(3rd edition)* Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi
- **Swaminathan (1995)** *Food & Nutrition*(Vol I, Second Edition) The Bangalore Printing &Publishing Co Ltd., , Bangalore
- **Vijaya Khader (2000)** *Food, nutrition & health*, Kalyan Publishers, New Delhi
- **Srilakshmi, B., (2010)** *Food Science, (5th Edition)* New Age International Ltd., New Delhi
- Weblinks: <https://nhm.gov.in/>
 - National Rural Health Scheme:
<https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=969&lid=49>
 - National Urban Health Scheme:
<https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=970&lid=137>
 - Village health sanitation & Nutritional committee
<https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=149&lid=225>
 - About Accredited Social Health Activist (ASHA)
<https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=150&lid=226>
 - Village Health Nutrition Day
<https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=152&lid=228>

- Rogi Kalyan Samitis
<https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=153&lid=229>
- Health Impact Assessment - <https://www.who.int/hia/about/faq/en/>
(suggested information only)
http://www.euro.who.int/_data/assets/pdf_file/0011/261929/Health-in-Impact-Assessments-final-version.pdf?ua=1
- WASH <https://www.unicef.org/wash/> and
https://www.unicef.org/wash/files/UNICEF_Strategy_for_WASH_2016_2030.PDF
- Healthy Living <https://www.nhp.gov.in/healthylivingViewall>

Note: The above web links are from MoHFW, GoI. Teachers can prepare their notes from other resources also.

SRI VENKATESWARA UNIVERSITY
B.VOC DEGREE COURSE IN HORTICULTURE

Model question paper for theory examination at the end of IV
Semester Health and Hygiene

Max. Time : 2 Hrs.

Max. Marks: 50

Max. Marks: 50 Time: 1 1/2 hrs (90 Minutes)

Section -A

(Total: 4x5=20 Marks)

(Answer any four questions. Each answer carries 5 marks)

(Total 8 questions. At least 1 question should be given from each Unit)

I. Answer any five questions

1. Balance Diet.
2. Minerals.
3. Carbohydrates.
4. Health education.
5. Health indicators.
6. I C M R.
7. Wash programme.
8. Arogyasetu.

Section- B

(Total: 3x10 = 30 Marks)

(Answer any three questions. Each answer carries 10 marks)

(Total five questions. At least 1 question should be given from each Unit)

9. Write in detail about the functions sources, effects of deficiency of proteins.
10. Give a brief account on vitamins.
11. Describe the women and child health care schemes.
12. What is hygiene. Explain various methods of hygiene.
13. Give on account an public awareness of hygiene through digital media..

Note: Questions may be set in such a way to test the outcomes instead of recalling of information.

Verified
Chandru
(M-Vani)
BOS Chairperson Zoology

HEAD
DEPARTMENT OF ZOOLOGY
S. V. S. S. S. S. S.

SRI VENKATESWARA UNIVERSITY
B.VOC. DEGREE COURSE IN HORTICULTURE

Revised CBCS w.e.f 2021 -22

LIFE SKILL COURSE

III-SEMESTER

Personality Enhancement & Leadership

Total 30 hrs (02 h/wk, 02 Cr & Max 50 Marks)

Syllabus:

Unit- I:(7 hrs)

Meaning of Personality - Explanations of Human Personality - Psychodynamic Explanations - Social Cognitive Explanation - Big Five traits of Personality

Unit- II (8 hrs)

Assessment of Personality - Projective & Self Report Techniques - Building Self-Confidence - Enhancing Personality Skills

Unit - III:(10 hrs)

Leadership Characteristics - Types of Leaders - Importance of Leadership - Leadership Skills - Building and Leading Efficient Teams - Leadership Qualities of Abraham Lincoln, Mahatma Gandhi, Prakasam Pantulu, Dr. B. R. Ambedkar & J.R.D. Tata

Co-curricular Activities Suggested: (05 hrs)

1. Assignments, Group discussions, Quiz etc
2. Invited Lecture by a local expert
3. Case Studies (ex., on students behavior, local leaders etc.)

Reference Books:

- ~ Girish Batra, Experiments in Leadership, Chennai: Notion Press, 2018
- ~ Mitesh Khatri, Awaken the Leader in You, Mumbai: Jaico Publishing House, 2013
- ~ Carnegie Dale, Become an Effective Leader, New Delhi: Amaryllis, 2012
- ~ Hall, C.S., Lindzey. G. & Campbell, J.B Theories of Personality. John Wiley & Sons, 1998

M. S. Srinivas

Chairperson
BOS in English
(PASS)

III SEMESTER
Life Skill Course

Personality Enhancement & Leadership
Model Question Paper

Time: **1 ½ hours (90 Min.)**

Max. Marks: 50

Section A

I. Answer any Four Questions. Each Question carries 5 marks

4 X5=20

1. What are the characteristics of Personality?
2. What is Personality? Discuss its Nature.
3. What are the strengths and weaknesses of Projective Techniques?
4. Discuss the importance of Team.
5. What techniques can be used for effective Team Building?
6. Explain the differences between Work Groups and Work Teams.
7. What do you understand by the term "Leadership"?
8. What are the Determinants of Personality?

Section B

II. Answer any Three Questions. Each Question carries 10 marks

3 X10=30

1. Describe the assumptions of the psychodynamic perspective on personality development including the id, ego, and superego.
2. Discuss the "Big Five Personality Traits".
3. How do culture and family determine the development of the Personality?
4. How does an individual build self-confidence?
5. What do you understand by the term Leadership? Enumerate its important characteristics.
6. Explain the different types of Leadership.

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SRI VENKATESWARA UNIVERSITY
B A, B Com & B Sc Programmes
B.VOC. DEGREE COURSE IN HORTICULTURE
Revised CBCS w.e.f. 2020-21
SKILL DEVELOPMENT COURSES
III-SEMESTER
SCIENCE STREAM

Syllabus of
ENVIRONMENTAL AUDIT
Total 30 hrs (02h/wk), 02 Credits & Max 50 Marks

Learning Outcomes:

By successful completion of the course, students will be able to;

1. *Understand the basic concepts Environmental health*
2. *Learn and identify the industrial pollution*
3. *Explain the highlights in the regulatory aspects of Environmental law and policy*
4. *Understand the various phases of Environmental Audit*

UNIT – I

Industrial Pollution and its effects 06h

Climate – Weather and Air Pollution – Classification of water and water bodies – Water Quality Parameters – Water Pollution – Sources – Classification, nature and Toxicology of water pollutants. - Soil parameters –Soil pollution and impacts – Soil conservation

UNIT - II

Environmental Law & Policy: 09h

Highlights of the Acts, Institutional arrangements for: (1) The Water (Prevention & Control of Pollution) Act, 1974 amended in 1988; (2) The Air (Prevention and Control of Pollution) Act, 1981 amended in 1987; (3) The Water (Prevention and Control of Pollution) Cess Act, 1977 amended in 1991; (4) The Environment (Protection) Act, 1986; (5) The Public Liability Insurance Act, 1991; – Indian Policy Statement for abatement of Pollution, 1992.

UNIT - III

Environmental Audit - Scope & Requisites: 10h

Environmental Audit: Definition; Objectives; Scope, Coverage - GOI Notification on Environmental Audit - Benefits to Industry. Reporting Environmental Audit Findings - Importance of Environmental Audit Report to industry, public and the governments.

Co-curricular Activities Suggested:

05h

1. Visit to understand Institutional arrangements and functioning of Pollution Control Boards.
2. Visiting different Ecosystems
3. **Soil analysis:** Determination of soil type and texture, pH, Soil Moisture, Nitrogen, Potassium and Phosphorous.
4. **Water analysis:** Determination of pH, Dissolved solids and suspended solids, Dissolved Oxygen, COD, BOD.
5. Assignments, Group discussion, Quiz etc.

Reference books and websites:

1. Environmental Education in India by K.R. Gupta
2. Environmental Legislation in India by K.R. Gupta
3. <https://parivesh.nic.in/>
4. <https://www.cpcb.nic.in/>
5. <https://www.free-ebooks.net/environmental-studies-academic>

SRI VENKATESWARA UNIVERSITY
B.VOC. DEGREE COURSE IN HORTICULTURE
SKILL DEVELOPMENT COURSE
SCIENCE STREAM
III-SEMESTER
MODEL QUESTION PAPER
W.E.F.2021-22
ENVIRONMENTAL AUDIT *Time: 1½ hrs (90 Minutes)*

Max. Marks: 50

SECTION- A

(4x5M=20 Marks)

*Answer any four questions. Each answer carries 5 marks
(At least 1 question should be given from each Unit)*

1. Write any three global environmental problems?
2. Write a short note on soil pollution and its impact?
3. What is BOD and explain its significance in determining the quality of water?
4. What are the objectives of the environmental Acts and the Institutional arrangements
5. Write a brief note on the environmental laws that governs the water pollution
6. Write a brief note on the functioning of central and state pollution control boards?
7. What are the objectives of environmental audit
8. What is GoI notification on environmental audit?

SECTION B

(3x10M = 30 Marks)

*Answer any three questions. Each answer carries 10 marks
(At least 1 question should be given from each Unit)*

1. What is water pollution and explain in detail about the water pollutants?
2. What is air pollution and explain in detail about the air pollutants?
3. Write an essay on the Water (Prevention & Control of Pollution) Act, 1974 amended in 1988
4. Write an essay on the Air (Prevention and Control of Pollution) Act, 1981 amended in 1987
5. What is environmental audit and explain the various stages involved in it and the benefits of environmental audit to the industry?

SRI VENKATESWARA UNIVERSITY: TIRUPATI
B.VOC DEGREEE COURSE IN (HORTICULTURE)
Under CBCS W.E.F.2021-2022
Semester - III

CORE -I INTRODUCTION TO SOIL SCIENCE

Teaching Hours: 4

CREDITS: 4

Theory: Learning Outcome:

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

- Understand basic principles of Soil science
- Understand the soil formation, soil profile, and soil physical properties
- Understand the elementary knowledge of soil taxonomy
- Understand s the problematic soils and their management
- Understand soil organic matter composition and its influence on soil micro organisms

SYLLABUS

UNIT -I INTRODUCTION:

Definition of Soil, Soil as Natural Body, Soil Components; Soil Air, Soil water, Organic and Inorganic Solids ,soil components.

UNIT -II PHYSICAL PROPERTIES:

Soil separates, texture, Aggregation, and structural characters, Temperature, Color, Soil quality, properties of Soil mixture, pore Space, bulk density, particle density, aeration, and water holding capacity, soil erosion and conservation, drainage, compaction, surface area, soli water relations.

UNIT - III MORPHOLOGY OF COLLOIDS & BIOLOGICAL PROPERTIES OF SOIL

Chemistry of clays, ionic exchange, acidity, alkalinity, ph and salinity, relations, liming and acidification. Soil organic matter, C: N relations, N transformations, soil organisms, sulphur, transformation.

UNIT- IV GENESIS AND CLASSIFICATION

Profile, soil forming factors, soil survey methods, soil survey reports, soil distribution ,soil classification of systems, drainage, erosion and mechanisms - control, irrigation, land use classification. Environmental quality, plant and animal waste, municipal, and industrial by products , nutrient, loading, tillage, system, wet lands, urban soils, soil health.

UNIT: V SOIL FERTILITY AND FERTILIZERS

Essential, elements, soil fertility evaluation techniques, factors affecting soil fertility. Importance of soil fertility. Soil testing, fertilizers, micro nutrient fertilizers and their quality, control, production and use of slow and controlled, release fertilizers.

SRI VENKATESWARA UNIVERSITY: TIRUPATI
B.VOC DEGREE COURSE IN (HORTICULTURE)
Under CBCS W.E.F.2021-2022
Semester - III

INTRODUCTION TO SOIL SCIENCE

PRACTICALS

Teaching Hours: 2

Credits: 2

Learning outcomes after completion of this course, the students should have learned the skills

1. Conducting chemical analysis, Principles, techniques and calculations
2. About soil physical characteristics, nutrient analysis, and soil Structure
3. Determination of infiltration rate of the soil, determination of Cat ion Exchange capacity

SYLLABUS

1. Soil sampling procedures for field and horticultural crops.
2. Determination of EC.
3. Determination of PH of soil.
4. Land use, texture bulk density, Definition of Soil Physical properties.
5. Determination of N, P and K of the soil.
6. Determination of Sulphur.
7. Fertilizer recommendations.
8. Soil health card, parameters, EC, PH and their Importance.

SRI VENKATESWARA UNIVERSITY: TIRUPATI
B.VOC DEGREE COURSE IN (HORTICULTURE)
Under CBCS W.E.F.2021-2022
Semester - III

DISEASES OF HORTICULTURAL CROPS AND THEIR MANAGEMENT

THEORY -CORE II

Teaching Hours:4

CREDITS :4

LEARNING OUTCOMES:

1. The students should understand the importance of the course as it deals with crop management and yields of the crop.
2. The nature of damage, extent of damage, ETLs remedial measures for crop protection.
3. The students should identify the casual organism by seeing the symptoms and nature of damage.
4. The student should know the spraying and spraying equipment and precautions to be taken while Dealing with plant protection equipment.
5. Quick diagnosis, Quick decision, and correct action are very important Lecture outlines.

SYLLABUS

UNIT- I

1. Study of etiology, symptoms, host-parasite relationship and specific management practices of the following diseases.
2. Citrus diseases - Citrus canker, gummosis (Phytophthora and Diploid), sooty mold, red rust and Loranthus.
3. Guava, Papaya, Beer and Saputo diseases -Guava: wilt and anthracnose. Papaya: foot rot, anthracnose, leaf curl and mosaic and powdery mildew. Beer: Powdery mildew. Saputo: Flat limb.

UNIT-II

1. Grapevine diseases -downy mildew, Powdery mildew, anthracnose, Alternaria leaf spot and rust.
2. Apple and Peach diseases -Apple: scab, powdery mildew, fire blight and crown gall Peach: leaf curl.

UNIT -III

1. Chilies diseases- Damping off, die-back and fruit rot, Fusarium wilt, powdery mildew, Choanephora blight, Cercospora leaf spot, bacterial leaf spot, mosaic complex and leaf curl.
2. Brinjal and Okra diseases -Brinjal- Phomopsis blight and fruit rot, bacterial wilt and little leaf. Okra- Cercospora leaf spot, powdery mildew and Yellow Vein Mosaic.

3. Potato diseases - early and late blight, black scurf, common scab, wart, black leg, brown rot, leaf roll, mosaics, potato spindle tuber.

4. Tomato diseases - damping off, Ralston wilt, early blight, buck eye rot and leaf curl, Septoria leaf spot, bacterial canker, root knot. Tomato spotted wilt and mosaic.

UNIT -IV

1. Crucifers and Cucurbits diseases -Cruciferous vegetables- Club root, white rust, Downy mildew, powdery mildew, Alternaria leaf spot and black rot. Cucurbits: downy mildew, powdery mildew, Cercospora leaf spot, Erwinia wilt and CMV.

2. Betel vine, onion and garlic diseases -Betel vine: Phytophthora root and stem rot, sclerotial wilt, Fusarial wilt, Anthracnose. Onion and garlic: Smudge, smut, purple blotch, and Stemphylium blight.

3. Beans, Colocasia and Coriander diseases -Beans- anthracnose, rust, Bean common mosaic virus and bacterial blight. Colocasia: Phytophthora blight. Coriander-stem gall.

UNIT -V

1. Coconut and oil palm diseases -Coconut- Stem bleeding, Ganoderma wilt, bud rot, grey blight and Tatipaka disease. Oil palm- Bunch rot and spear rot. Teablister blight Coffee- rust.

2. Turmeric, ginger and mulberry diseases -Turmeric leaf spot, leaf blotch, and rhizome rot Ginger: rhizome rot/soft rot, leaf spot. Mulberry-powdery mildew.

3. Rose- dieback, Powdery mildew and black leaf spot. Marigold: Botrytis blight Chrysanthemum- wilt, stunt, Septoria blotch, Jasmine- rust, Crossandra –wilt.

SRI VENKATESWARA UNIVERSITY: TIRUPATI
B.VOC DEGREE COURSE IN (HORTICULTURE)
Under CBCS W.E.F.2021-2022
Semester - III

**CORE II: DISEASES OF HORTICULTURAL CROPS AND THEIR
MANAGEMENT**

Practical Syllabus

Teaching Hours: 2

Credits: 2

Studies of symptoms, Identification and his to pathological studies of the following diseases

1. Citrus diseases.
2. Mango diseases.
3. Ber, guava and sapota diseases.
4. Field visits for the diagnosis of crop diseases.
5. Papaya, banana and pomegranate diseases.
6. Chilli, brinjal and Bhendi diseases.
7. Field visits for the diagnosis of crop diseases.
8. Tomato diseases.
9. Crucifers and cucurbits diseases.
10. Field visits for the diagnosis of crop diseases.
11. Coconut and oil palm diseases.
12. Field visits for the diagnosis of crop diseases.

SRI VENKATESWARA UNIVERSITY: TIRUPATI
B.VOC DEGREE COURSE IN (HORTICULTURE)
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Semester - III

CORE -III PRODUCTION TECHNOLOGY OF VEGETABLE CROPS

TEACHING HOURS: 4

CREDITS: 4

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

- Distinguish the growing of vegetables according to season and climate
 - Get detailed knowledge on cultivation aspects of different vegetables
 - Understand and explain the special intercultural operations done in vegetable crops
 - Study of morphology and taxonomy of different vegetable crops
 - Study of different varieties of vegetable crops
 - Identify the diseases and pests of vegetable crops and their management
-

SYLLABUS

Unit -I: introduction to Vegetable crops

12 Hrs.

1. Importance of vegetable cultivation in India and Andhra Pradesh.
2. Classification and Nutritive value of vegetables.
3. Area and production of vegetables in India and Andhra Pradesh.
4. Export and import potential of vegetables in India. Constraints in vegetable production and remedies to overcome them.

Unit-II: Solanaceous and Leafy vegetables

12 Hrs.

Importance, morphology and taxonomy, varieties, climate and soil, seeds and sowing, manuring, irrigation, intercultural operations, diseases and their control, harvesting and yield of following crops:

Cultivation of (a) Brinjal (b) Tomato (c) Capsicum (d) Spinach (e) Coriander and (f) Menthe

Unit -III: Root and Tuber crops

16 Hrs.

Importance, morphology and taxonomy, varieties, climate and soil, seeds and sowing, manuring, irrigation, intercultural operations, diseases and their control, harvesting and yield of following crops:

Cultivation of (a) Carrot (b) Beet root(c) Tapioca and (d) Colossian

Unit -IV: Cole crops

08 Hrs.

Importance, morphology and taxonomy, varieties, climate and soil, seeds and sowing, Manuring, irrigation, intercultural operations, diseases and their control, harvesting and Yield of following crops:

Cultivation of (a) Cabbage and (b) Cauliflower.

Unit -V: Leguminous vegetables

12 Hrs.

Importance, Morphology and taxonomy, varieties, climate and soil, seeds and sowing, manuring, irrigation, intercultural operations, diseases and their control, harvesting and yield of following crops:

Cultivation of (a) Cluster bean (b) Cow pea and (d) Doritos.

SRI VENKATESWARA UNIVERSITY: TIRUPATI
B.VOC DEGREE COURSE IN
(HORTICULTURE)
Under CBCS W.E.F.2021-2022
Semester - III
CORE -III: PRODUCTION TECHNOLOGY OF VEGETABLE CROPS

Practical syllabus

1. Demonstration of seed viability test.
2. Identification of vegetable seeds and vegetable crops at different growth stages.
3. Preparing vegetable nursery beds.
4. Raising vegetable seedlings in nursery bed and portrays
5. Identification of major diseases and insect pests of vegetables
6. Land preparation for sowing/ transplanting of vegetable crops
7. Sowing/ transplanting of vegetables in main field
8. Fertilizer application for vegetable growing
9. Visit to vegetable field to study methods of vegetable cultivation.