

# SRI VENKATESWARA UNIVERSITY : TIRUPATI

B.VOC. DEGREE COURSE IN HORTICULTURE

Under CBCS W.E.F. 2020-21

## COURSE STRUCTURE

### SEMESTER – II

Sl. No	Skill/ Gen. Edu	Courses	Title of the Paper/Course and code	Credits per course	Hours/ week	Total Hours/ Course	Marks		
							Internal	External	Total
1	General Education component Gen.Edu	Language	General English	3	4	60	25	75	100
2		Life skills	Information and Communication Technology	2	2	30	-	50	50
3		Skill Dev. Course	Basics of Vascular Plants	2	2	30	-	50	50
4			Fruits and Vegetable Preservation	2	2	30		50	50
5	Domain Skill component	Core-I	Methods of Plant Breeding,Tissue Culture, Ornamental Horticulture & Land Scaping	4	4	60	25	75	100
6		Practical-I	Methods of Plant Breeding,Tissue Culture, Ornamental Horticulture & Land Scaping	2	2	30	-	50	50
7		Core-II	Production Technology of Fruit Crops	4	4	60	25	75	100
8		Practical-II	Production Technology of Fruit Crops	2	2	30	-	50	50
9		Core-III	Silvi Horticulture, Medicinal and Aromatic Plants & Pests	4	4	60	25	75	100
		Practical III	Silvi Horticulture, Medicinal and Aromatic Plants & Pests	2	2	30	-	50	50
10		Industrial Internship	Industrial Training for 30 days	3	36	144	-	50	50
Total Credits				30	Total Marks				750

23/2/21

P. R. 23/2/21

**SRI VENKATESWARA UNIVERSITY**

**B.A. / B.Com. / B.Sc. / B.Voc. DEGREE COURSE IN ENGLISH**

**FIRST YEAR - SECOND SEMESTER**

**(Revised Syllabus under CBCS w.e.f. 2020-21)**

**ENGLISH PRAXIS COURSE - II  
A COURSE IN READING & WRITING SKILLS**

**I. UNIT**

Prose	: 1. How to Avoid Foolish Opinions Bertrand Russell
Skills	: 2. Vocabulary: Conversion of Words
	: 3. One Word Substitutes
	: 4. Collocations

**II. UNIT**

Prose	: 1. The Doll's House	Katherine Mansfield
Poetry	: 2. Ode to the West Wind	P B Shelley
Non-Detailed Text	: 3. Florence Nightingale	Abrar Mohsin
Skills	: 4. Skimming and Scanning	

**III. UNIT**

Prose	: 1. The Night Train at Deoli	Ruskin Bond
Poetry	: 2. Upagupta	Rabindranath Tagore
Skills	: 3. Reading Comprehension	
	: 4. Note Making/Taking	

**IV. UNIT**

Poetry	: 1. Coromandel Fishers	Sarojini Naidu
Skills	: 2. Expansion of Ideas	
	: 3. Notices, Agendas and Minutes	

**V. UNIT**

Non-Detailed Text	: 1. An Astrologer's Day	R K Narayan
Skills	: 2. Curriculum Vitae and Resume	
	: 3. Letters	
	: 4. E-Correspondence	

Approved by BOS (PASS)  
w.e.f. 2020-2021

*M. Menaka*  
3/9/2020  
Chairperson  
BOS in ENGLISH  
(PASS)

**SRI VENKATESWARA UNIVERSITY**  
**B.A. / B.Com. / B.Sc. / B.Voc. DEGREE EXAMINATION IN ENGLISH**  
**FIRST YEAR - SECOND SEMESTER**  
**(Revised Syllabus under CBCS w.e.f. 2020-21)**

**ENGLISH PRAXIS COURSE-II**  
**A COURSE IN READING & WRITING SKILLS**

**Time: 3 hours**

**Max Marks: 75**

**I) Answer any THREE of the following questions (3X5=15)**

- a. Summarize Russell's, "How to Avoid Foolish Opinion"
- b. Write Noun forms for the following words by adding a Suffix:  
i) Manage    ii) free    iii) pollute    iv) create    v) Maintain
- c. Write one word substitutes for the following  
i) A Government by one  
ii) One who looks at the bright side of things  
iii) A position for which no salary is paid  
iv) One who eats too much  
v) That which cannot be avoided.
- d. Match the following into appropriate collocations:  

A	B
i) Strong	i) Privacy
ii) Happy	ii) mistake
iii) some	iii) ending
iv) works	iv) coffee
v) Terrible	v) perfectly
- e. Avoiding stupidity is easier than seeking brilliance. Explain

**II) Answer any THREE of the following questions; (3X5=15)**

- a. Compare Torvald's and Nora's attitudes toward money
- b. How does Shelley describe the power of West Wind
- c. Describe Florence Nightingale
- d. Define Skimming
- e. Define Scanning

**III) Answer any THREE of the following questions (3X5=15)**

- a. What's the theme of "The Night" Train at Deoli?
- b. Critically appreciate the poem "Upagupta"
- c. Why does the narrator say it is a game in the Night Train at Deoli
- d. Read the following passage and answer the questions that follow.  
Slavery can broadly be described as the ownership, buying and selling of human beings for the purpose of forced labour. The institution of slavery is as old as civilization. Many nations and empires were built by the muscles of the slaves.



Overtime people have found many reasons to justify slavery. Slaves were usually considered somehow different than their owners. They may belong to different race, religion, nationality or ethnic background. By focussing on such differences, slave owners felt that they could deny basic human rights to their slaves.

- i) What is the purpose of the institution of slavery?
  - ii) What is a slavery?
  - iii) How were the empires built?
  - iv) How were the slaves different from their masters?
  - v) Give the meaning of 'deny'
- c. Make notes on the following passage.
- Early rising is the secret for a happy life. We all wish to live long but we cannot. We go against Nature. Nature likes us to work during day and to rest at night. But we do not obey this law of Nature. We do not go to bed early. We read or write late into night. Some of us keep playing, dancing and drinking whole night. So, we do not rise early. Our health breaks down and we fall ill. Nature takes revenge. We have to suffer for our disobedience. But birds and animals are healthy. They do not need a doctor every day. They sleep early and rise early. This simple habit will give everything. So, it is said: "Early to bed and early to rise makes a man healthy, wealthy and wise"

**IV) Answer any **THREE** of the following questions. (3X5=15)**

- a. Write a critical appreciation of the poem the Coromandel Fishers
- b. Make hay while the sun shines. Expand
- c. How does Sarojini Naidu a day in the lives of the fishermen?
- d. Imagine that you are the manager of a company. You want to inform your employees of an important meeting. Write a suitable notice.
- e. Explain minutes.

**V) Answer any **THREE** of the following questions (3X5=15)**

- a. Justify the title "An Astrologer's Day"
- b. Prepare a CV for the post of a Sales Executive
- c. Write a letter to your friend about Corona crisis at your native place
- d. Write a resume for your dream job
- e. Assume that you received the letter of appointment for the post of General Manager from Splendour Pvt Ltd. Send an email to the company thanking them for the offer.

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(05.12.2020)  
(Dr M.SREELATHA),  
Chairman,  
BOS English(PASS).

**SRI VENKATESWARA UNIVERSITY :: TIRUPATI**  
**B.VOC. DEGREE COURSE IN HORTICULTURE**  
**FIRST YEAR – SECOND SEMESTER**  
**Under CBCS W.E.F. 2020-21**

**GENERAL EDUCATION COMPONENT**  
**Life Skill Course: INFORMATION & COMMUNICATION TECHNOLOGY**

Total 30 hrs (02h/wk),

02 Credits & Max Marks: 50

**Objectives:**

This course aims at acquainting the students with basic ICT tools which help them in their day to day and life as well as in office and research.

**Course outcomes:** After completion of the course, student will be able to;

1. Understand the literature of social networks and their properties.
2. Explain which network is suitable for whom.
3. Develop skills to use various social networking sites like twitter, flickr, etc.
4. Learn few GOI digital initiatives in higher education.
5. Apply skills to use online forums, docs, spreadsheets, etc for communication, collaboration and research.
6. Get acquainted with internet threats and security mechanisms.

**SYLLABUS:**

**UNIT-I: (08 hrs)**

Fundamentals of Internet: What is Internet?, Internet applications, Internet Addressing – Entering a Web Site Address, URL–Components of URL, Searching the Internet, Browser –Types of Browsers, Introduction to Social Networking: Twitter, Tumblr, LinkedIn, Facebook, flickr, Skype, yahoo, YouTube, WhatsApp .

**UNIT-II: (08 hrs)**

E-mail: Definition of E-mail -Advantages and Disadvantages –User Ids, Passwords, Email Addresses, Domain Names, Mailers, Message Components, Message Composition, Mail Management.

G-Suite: Google drive, Google documents, Google spread sheets, Google Slides and Google forms.

**UNIT-III: (10 hrs)**

Overview of Internet security, E-mail threats and secure E-mail, Viruses and antivirus software, Firewalls, Cryptography, Digital signatures, Copyright issues.

What are GOI digital initiatives in higher education? (SWAYAM, SwayamPrabha, National Academic Depository, National Digital Library of India, E-Sodh-Sindhu, Virtual labs, e-acharya, e-Yantra and NPTEL).

**RECOMMENDED CO-CURRICULAR ACTIVITIES: (04 hrs)**

(Co-curricular activities shall not promote copying from textbook or from others work and shall encourage self/independent and group learning)

1. Assignments (in writing and doing forms on the aspects of syllabus content and outside the syllabus content. Shall be individual and challenging)
2. Student seminars (on topics of the syllabus and related aspects (individual activity))
3. Quiz and Group Discussion
4. Slip Test
5. Try to solve MCQ's available Online.
6. Suggested student hands on activities :
  - a. Create your accounts for the above social networking sites and explore them, establish a video conference using Skype.
  - b. Create an Email account for yourself- Send an email with two attachments to another friend. Group the email addresses use address folder.
  - c. Register for one online course through any of the online learning platforms like NPTEL, SWAYAM, Alison, Codecademy, Coursera. Create a registration form for your college campus placement through Google forms.

**Reference Books:**

1. In-line/On-line : Fundamentals of the Internet and the World Wide Web, 2/e – by Raymond Greenlaw and Ellen Hepp, Publishers : TMH
2. Internet technology and Web design, ISRD group, TMH.
3. Information Technology – The breaking wave, Dennis P.Curtin, Kim Foley, Kunai Sen and Cathleen Morin, TMH.

**SRI VENKATESWARA UNIVERSITY :: TIRUPATI**  
**B.VOC. DEGREE EXAMINATION IN DAIRYING AND ANIMAL HUSBANDRY**  
**FIRST YEAR – SECOND SEMESTER**  
**Under CBCS W.E.F. 2020-21**

**GENERAL EDUCATION COMPONENT**  
**Life Skill Course: INFORMATION & COMMUNICATION TECHNOLOGY**

**MODELQUESTIONPAPER**

Time: 1 ½ hours (90 Min.)

Marks: 50 marks

**PART – A**

Answer any **Four** of the following question.

**(4X5=20M)**

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

**PART – B**

Answer any **Three** The Questions. Each question carries 10 marks **(3X10=30M)**

9.	
10.	
11.	
12.	
13.	
14.	

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**SYLLABUS:**

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**UNIT-II: (08 hrs)**

E-mail: Definition of E-mail -Advantages and Disadvantages –User Ids, Passwords, Email Addresses, Domain Names, Mailers, Message Components, Message Composition, Mail Management.

G-Suite: Google drive, Google documents, Google spread sheets, Google Slides and Google forms.

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**SKILL COMPONENT**

**Core Paper-I: METHODS OF PLANT BREEDING, TISSUE CULTURE, ORNAMENTAL  
HORTICULTURE AND LAND SCAPING**

**Hours: 60**

**Marks: 75**

**Credits: 04**

**Learning outcome:**

After complete of these courses, students should be able to be

- Learn about definitions, know about methods of plants breeding
- Understand the significance of tissue culture and in vitro culture
- Production of ornamental horticulture in AP
- Know about ornamental flowers and plants
- Understand the design of landscaping and its maintenance in various places.

**Unit-I (14 h)**

Reproduction parts of plants, Role and objectives of reproductive system of plants, Plant Breeding methods – Self pollinated crop, cross pollinated, Clonally Propagated Crops and Special breeding methods, Breeding techniques in different crops (Fruits and vegetables, spices, and flower crops) and maintenance.

**Unit-II (12 h)**

History, Concept, and application of tissue culture, General techniques and Brief explain the techniques of tissue culture (Callus, Anther/ pollen Protoplast culture) and factors affecting in vitro growth and development of tissue, and Importance of Cryopreservation. Briefly explain the primary metabolites and secondary metabolites and role of secondary metabolites.

**Unit-III (12 h)**

Definition, scope and objectives of ornamental (Decorative plants and flowers) horticulture and production of ornamental horticulture in national level and aesthetic values., Classification of ornamental plants based on utility. Industrial importance of ornamental plants and flowers, design and general cultivation aspects for ornamental plants and flowers.

**Unit- IV (11 h)**

Definition, scope, objectives, and importance of landscaping, differences between lawn and landscaping and Study of principles and elements of landscape design, Landscape design for various places and special care of lawns in various places namely play ground, parks, Dam sites, Hydroelectric stations, Rivers, home garden, industrial, educational institutions, Hospital etc., Lawn-selection of grass-site selection-soil-preparation of soil-drainage-manuring and grading- maintenance of lawn-mowing rolling irrigation weeding-diseases and other problems.

**Unit-V (11 h)**

Global trends in urban horticultural concepts - Urban Planning and town planning concepts- Geddisian Triad concept, garden city concept, satellite town principles, importance of plants in urban planning, role of plants in managing urban environmental factors and vice-versa., Basics, techniques and layout– social horticulture– physiological and social aspects of ornamental plants and flowers, Pollution control through horticulture. Herapeutic Horticulture for Health Benefits and Definition and application of aroma therapy – aroma garden.

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**SKILL COMPONENT**

**Practical Paper-I: METHODS OF PLANT BREEDING, TISSUE CULTURE, ORNAMENTAL  
HORTICULTURE AND LAND SCAPING**

**Hours: 30**

**Marks: 50**

**Credits: 02**

1. Identification of ornamental plants and garden components
2. Study of form, size, shape, texture, flowering season and flower colour of different living components.
3. Identification and description of trees, shrubs, flowers beds, foliage beds, climbers and creeper, hedges, edges, cacti, succulents, ferns and palms.
4. Study of different styles of garden
5. Design and methods of lawn Establishment.
6. Identification, planning and designing of non–living components.
7. Principles and concepts in garden designing
8. Preparation of landscape design plan for park, public places home, institution and industries
9. Study on types of garden
10. Study on horticultural crafts
12. Study on types of lawn grass.
13. Preparation of landscape project
14. Visit to various gardens/forestry department

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**FIRST YEAR – SECOND SEMESTER**

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**SKILL COMPONENT**

**Core Paper-II: PRODUCTION TECHNOLOGY OF FRUIT CROPS**

**Hours: 60**

**Marks: 75**

**Credits: 04**

**Learning outcome:**

After complete of these courses, students should be able to be

- Know and understand about Climatic and non climatic fruits
- Learn about morphology of various fruits
- Understand about Culture practice of fruits

**Unit-I (12 h)**

Scope and objectives of fruit crops and Economical Importance of fruits growing in India and Andhra Pradesh. Nutritive values of fruits, production in national and international level and Andhra Pradesh. Definition of Pomology and classification of fruit crops with examples, Differences between climacteric and non climacteric fruits, Cultivation practices in tropical, sub- tropical, and temperate regions with examples.

**Unit II (12 h)**

Taxonomy and importance of Mango, Banana, Citrus, Guava, Papaya., Origin, Distribution, area and climate, soil, varieties, propagation, land preparation, manuring and fertilizer, irrigation, cultivation, planting, intercropping, weed management pruning and training, flowering and fruit set and drop, diseases and pests, harvesting and yielding, packing and transport of the following fruit crops in tropical region namely Mango, Banana, Citrus, Guava, Papaya.

**Unit III ( 12 Hours)**

Taxonomy and importance of grape, citrus, durian, jackfruit, etc., Origin, Distribution, area and climate, soil, varieties, propagation, land preparation, manuring and fertilization, irrigation, cultivation, planting, intercultural, weed management pruning and training , flowering , fruit set and drop, diseases and pests , harvesting and yielding, packing and transport of the following Cultivation practices of sub-tropical fruit crops namely grape, citrus, durian, jackfruit, etc.

**Unit IV (12 h)**

Taxonomy and importance of arid crops such as Tamarind, Amla, Ber (Indian jujube), etc., Origin, history, distribution, area and production, uses and composition, varieties, soil and climatic requirements, propagation, planting, training and pruning, manuring and fertilizer application, irrigation, inter cropping, diseases and pests , harvesting and yield.

## **Unit V (12 h)**

Taxonomy and importance of minor fruit crops such as Jamun (Black berry) Bael (maredu), Wood apple etc., Origin, history, distribution, area and production, uses and composition, varieties, soil and climatic requirements, propagation, planting, Training And Pruning, manuring and fertilizer application, irrigation, inter cropping, diseases and pest , harvesting and yield.

### **Books:**

1. Citriculture, Rajput, C.B.S. and Srihari Babu, R. 1958. Kalyani Publishers, New Delhi
2. Text book on Pomology (Fundamentals of fruit growing), Chattopadhyay, T.K.1997. Kalyani Publishers, Hyderabad.
3. Arid Fruit Culture, Chundawat, B.S. 1990. Oxford and IBH, New Delhi.



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**FIRST YEAR – SECOND SEMESTER**

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**SKILL COMPONENT**

**Practical Paper-II: PRODUCTION TECHNOLOGY OF FRUIT CROPS**

**Hours: 30**

**Marks: 50**

**Credits: 02**

- 1 . Taxonomy and morphology of varieties of Mango and Banana.
2. Study of varieties of Grape and Citrus.
3. Study of varieties of Papaya, Sapota and Guava.
4. Study of varieties of Pomegranate, Custard apple.
5. Study of varieties of Apple.
6. Study of varieties of minor fruit crops
- 7 . Identification and collection of important diseases in fruit crops and Herbarium preparation.
8. Visit to a fruit market

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**SKILL COMPONENT**

**Core Paper-III: SILVI HORTICULTURE, MEDICINAL & AROMATIC PLANTS AND PEST**

**Hours: 60**

**Marks: 75**

**Credits: 04**

**Learning outcome:**

After complete of these courses, students should be able to be

- Know about Silvi culture of important agro forestry species
- Understand the role of Medicinal & Aromatic Plants
- Identification and Description of Pests and observe in various crops

**Unit-I (12 h)**

Status and its Importance of forests in India /National and international level, National forest policy, 1988, Agro Forestry and their Classification, role of agro forestry in soil and water conservation, Definition, objectives of silviculture, Criteria for selection of tree species for agro forestry and Species Silviculture of important agro forestry species viz., cashew, casuarina, eucalyptus, tamarind, pungam, neem, jamun, ber, silk cotton and palmyrah, etc., and management.

**Unit-II (12 h)**

Medicinal plants –importance of medicinal plants –processing techniques production of Dioscorea, phyllanthus, rewinkle, Solanum, Aloe, Coleus, Asparagus, Belladonna, Costus, Aswagandha., Aromatic plants –Importance –essential oil industry in india –properties of essential oils –production technology of Mint, Palmarosa, Ocimum, Geranium Lemongrass, Vettivar, Citronella, Patchoul, and production harvest and processing techniques.

**Unit III (12 h)**

Identification and Description of pest in aromatic and medicinal plants.

**Unit-IV (12 Hours)**

Pests of Medicinal & Aromatic plants 1.Cinchona: Root grub, bugs. 2.Neem: Root grub, slug caterpillar, mired bug, mealy bug, tea mosquito bug. 3.Crotalaria: Sun hemp hairy caterpillar. 4.Cinnamon: leaf eating caterpillar, jumping bug. 5.Camphor: leaf roller, mealy bug, scales. 6.Mint: leaf roller, hairy caterpillars, termites, pyralid moth. 7.Datura: spotted borer, thrips. 8.Opium: cutworm, capsule borer, weevil. 9.Bellodona: Cut worm, potato beetle, flea beetle. 10.Dioscorea: aphids, red spider mites.

**Unit-V ( 12 h)**

Pests of stored products: 1.Tamarind beetle, cigarette beetle, Lesser grain borer, Kapra beetle, 2.Drug store beetle, Dried fruit moth, sweet potato tuber moth, red flour beetle, rice moth, Indian meal moth. 3.Dried current moth, Tobacco moth, dried fruit beetle, saw toothed beetle. 4.Insecticide residues problem in fruit, plantation, medicinal and aromatic plants and their tolerance limits.

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**SKILL COMPONENT**

**Practical Paper-III: SILVI HORTICULTURE, MEDICINAL & AROMATIC PLANTS AND PEST**

**Hours: 30**

**Marks: 50**

**Credits: 02**

1. Identification, description of medicinal plants
2. Identification and description of aromatic plants
3. Identification and description of foresty trees
4. Identification, Description of pest in medicinal and aromatic plants.
5. Visit to foresty department.

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**FIRST YEAR – SECOND SEMESTER**  
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**INDUSTRIAL INTERNSHIP**  
**Industrial Training for 30 days**

<b>Total Credits</b>	<b>Total hours / week</b>	<b>Total hour / semester</b>
<b>03</b>	<b>36</b>	<b>144</b>

**1. Industrial Training for 30 days**

30 days of internship to provide industrial exposure to the students through internship with various food processing industries to develop good practical knowledge beyond the classroom experience.

**2. Report writing.**

**3. Seminar presentation**

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**B.VOC. EXAMINATION IN HORTICULTURE**

**FIRST YEAR – SECOND SEMESTER**

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**CORE PAPERS - I, II & III**  
**MODEL QUESTION PAPER**

**Time: 3 hours**

**Marks: 75**

**SECTION – A**

Answer **ALL** of the following

**5X2=10Marks**

- 1.
- 2.
- 3.
- 4.
- 5.

**SECTION – B**

Answer any **THREE** of the following

**3X5=15Marks**

- 6.
- 7.
- 8.
- 9.
- 10.

**SECTION – C**

Answer **ALL** of the following

**5X10=50Marks**

11.     A  
       (or)  
       B
12.     A  
       (or)  
       B
13.     A  
       (or)  
       B
14.     A  
       (or)  
       B
15.     A  
       (or)  
       B