

**S.P.V.V.S'S****G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE****COLLEGE, SINDGI – 586 128 (Dist : Vijayapur. Karnataka State)****Affiliated to Rani Channamma University, Belagavi****Accredited at 'B' Grade (2.42 CGPA) by NAAC****E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 08488-221244 Mobile : 9611032604**

1.3.1 List and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.

SL NO.	Programme	Course	Sem	Paper Title	Unit	Title of cross cutting issues
01	B.A, B.Com,BSc	Compulsory Subject	III	Development of Personality & Communication Skills.	5 Modules	Human Values
02	B.A	English Basic	III	Biographical Sketches	Entire Text	
03	B.A, BCom, BSc	Indian Constitution	I	Fundamental Rights	II	
04	B.A, Bcom, BSc	English Basic	I	Ability Enhancement	I to II	
05	B.A	Sociology	II	Social Change and Social Control.	III	
06	B.A	English Optional	VI (P-II)	Study of Classics and Modern Theories.	Section B & C	
07	B.Sc	Kannada	III	AECC	I	Professional Ethics
08	B. Com	Corporate Communication	IV	Internal Communication and Public Relation.	II	
09	B.Com	Practical on Skill Development.	IV	Practical on Corporate Accounting.	I	
10	B.Com	Business Environment	I	Business Ethics and Community Services.	IV	
11	B.Com	Community Service	VI	Community Service	I	
12	B.Sc	English Basic	III & IV	Eco English	Entire Text	Environmental & Sustainability
13	B.A	English Optional	VI	Criticism (Eco-Criticism)	II	
14	B.Sc	Physics	I	Energy Resources		
15	B.Sc	Physics	III	Weather Forecasting	IV	

Co-ordinator IQAC

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16	B.Sc	Zoology	V (PI)	Ecology, Evolution, Wild Life Conservation.	Last unit	Environment & Sustainability
17	B.Sc	Botany	III	Plant Ecology	I and II unit	
18	B.Sc		V	Plant ecology and conservation biology	Entire text	
19	B.Sc	Botany	IV	Bio fertilizers and Organic Framing	Entire text	
	B.Sc	Chemistry	III	OEC	III	Gender
20	B.A	Sociology	III	Study of Indian Social Thought.	III	
21	B.A	Kannada	IV	Mahila Sahitya	IV & V	
22	B.Com	Kannada	III	Linga Samanathe	III	
23	B.Sc	Kannada	IV	Mahila Vimochana Chaluvali	IV	
24	B.Sc	Kannada	III	Hennina Sthana mana	III	
25	B.A	Hindi	IV	Linga Bed	III	
26	B.A	English	IV	Gender Studies	Entire Paper	
27	B.A	English	VI	Modern Literary Theories (Feminist Criticism)	Section B.2	
28	B.A	Political Science	III-OE	Gender & Politics	Entire Paper	

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1.3.1 Report on crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum.

Education at our institution aims at developing youth who are sensitive to various issues of the society, respect for all organisms on the planet, and contribute to the sustainable development goals. These are achieved by integrating cross cutting issues relevant to professional ethics, gender, environment and sustainability and human values into the curriculum. The program outcome focuses on honesty, integrity, ethics, environment and sustainability, responsible citizen which encompasses all the desired virtues of a worthy individual. The cross cutting issues are embedded in the core courses, electives and value added courses.

1. Professional Ethics: The primary objective of the education policy is to impart value based education by inculcating the professional ethics amongst the students by integrating the prescribed curriculum as specified by the affiliating university as well as by organizing activities focusing on values and ethics. These traits are inculcated through the courses such as the subjects like Corporate Communication and Practical on Skill Development, Business Environment and Community Service for the B.Com IV, I and VI semesters respectively.

2. Gender Equality: The Institution has constituted Women Empowerment Cell which chalks out programmes and executes the same effectively for the betterment of girl students. The courses like Kannada, English, Hindi, Political Science, Indian Economy, Sociology, emphasize the significance of gender equity. In addition, the institution has organized the activities like: Legal Awareness Programmes, Gender Sensitization and Equality, Self Defense (Karate), Self Support, Health and hygiene, Prevention of Sexual Harassment, Awareness on Female Foeticide and by establishing Anti-Ragging Cell, the institution created harmony among the students etc.

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3. Human Values: The College along with the academics focuses on instilling human values among the student community thus moulding them as responsible citizens of the nation. The courses viz., Indian Constitution, Biographical Sketches, Development of Personality and Communication Skills, Ability Enhancement Course, Social Change and Social Control, Study of Classics and Modern Theories, Principles of Management etc., addresses the issues relating to human values. The NSS, YRC, NCC and various cells of our institution also organizes programs like Yoga, Blood Donation Camp, Free Health and Eye Checkup Camp and also extend a helping hand to the people during Natural Disaster.

4. Environment and Sustainability: The policy of the institution is to preserve and promote the environment. The Institution plays its own role in sustaining and maintaining the environmental harmony. Our institution has received 'One District Green Champion Award'- 2020-21 by Government of India, Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education. The courses such as Environmental Science, Business Environment etc., focus on maintaining conducive environment and sustainability. In addition it conducts Green, Environment and Energy audits. For sustainability of the environment, the institution has installed solar energy panels in the college campus solar water heaters and installation of sewage water treatment unit for Ladies Hostels and setup underground water recharge facility (Rain Water Harvesting) in the campus. Several programs such as Swachh Bharat Abhiyana, Seminars, special lectures and rallies on Environmental issues are conducted by YRC, NSS, NCC.Eco-Club, Department of Botany and Chemistry to create awareness about the natural renewable and non-renewable resources and their sustenance. Science and English (BSc III and IV sem) subjects focus on different environmental issues such as Will the world come to an end?, Environmental and sustainability, Ecology and Biodiversity and its Conservation, Wild Life Conservation Energy Resources.

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- ६) सुगम हृद याकरण : १. वंशीधर तथा धर्मपाल शास्त्री
 ७) रचना रश्मि : परमानंद गुप्त
 ८) हृद याकरण : जयशंकर साद सिंह
 ९) याकरण दीप : रामदेव एम.ए.

4. Sociology (Optional)

B. A. SOCIOLOGY SYLLABUS

B. A. Fourth Semester

With effect from 2016-17

STUDY OF WESTERN SOCIOLOGICAL THOUGHT

Objectives of the Paper:

- Make the students to understand the basic theories of Western Sociological Thought.
- Make the students to understand the grand theories of Social Evolution.
- To make the students to understand the methodology of Social Sciences.

Unit- I Auguste Comte

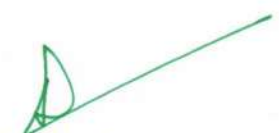
12 Hours

1. Positivism and Law of three Stages
2. Hierarchy of Sciences
3. Social Statics and Social Dynamics

Unit- II Herbert Spencer

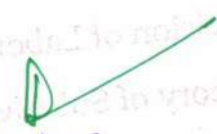
12 Hours

1. Theory of Evolution- Social Darwinism
2. Organic Analogy
3. Types of Society


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8. Guy Rocher (1990): A General Introduction to Sociology- A theoretical Perspective, Academic Publishers, Calcutta.
9. Haralambos Michael (1997): Sociology- Themes and Perspectives. Oxford University Press, Delhi
10. Morrison, Ken. (1985): Marx, Durkheim, Weber- Formation of Modern Social Thought. London Stage Publishers.
11. Ritzer George (1996): Sociological Theory. Tata McGraw Hill, New Delhi
12. Shankar Rao, C.N. (2001): Study of Social Thought. Jai Bharat, Mangalore.
13. Timasheff Nicolas and George Theodorson (1976): Sociological Theory (4th Ed.), Random House New York.
14. Zeltin Irving (1998): Rethinking Sociology: A Critique of Contemporary Theory. Rawat Publication, Jaipur.


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B. A. SOCIOLOGY SYLLABUS

With Effect From 2019-2020

SECOND SEMESTER	
SOCIAL CHANGE AND SOCIAL CONTROL	
Unit- I	Social Change
Unit- II	Social Control
Unit- III	Religion, Morality and Social Values
Unit- IV	Family, Marriage and Kinship
Unit- V	Social Progress and Development

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5. Sociology (Optional)

With effect from 2017-18 (2015-16 scheme)

B. A. Fifth Semester

Compulsory Paper- 5.1

STUDY OF INDIAN SOCIETY

Objectives of the Paper:

13. Make the students to understand the Philosophical Bases of Indian Society.
14. To make aware the students about the changing aspects of Indian Society.
15. To understand the changing aspects of Indian Stratification.

Unit- I Introduction 12 Hours

1. Features of Indian Society
2. Philosophical Bases of Indian Society- Varnasharma, Purusharthas and Samskaras
3. Factors of Continuity and Change

Unit- II Marriages in India 12 Hours

1. Marriage among Hindus, Muslims, and Christians
2. Divorce
3. Recent Changes in Marriage

Unit- III Family in India 12 Hours

1. Hindu Joint Family- Meaning and Features
2. Types of Family (Matriarchal and Patriarchal)
3. Changing aspects on Indian Family

Unit- IV Caste System in India 12 Hours

1. Meaning and Traditional Features
2. Merits and De-merits of Caste System
3. Changing aspects of Caste

B. A. Fifth Semester
Elective Paper- 5.2
RURAL DEVELOPMENT IN INDIA

Objectives of the Paper:

16. To understand the nature of Rural Development in India.
 17. To understand the changing nature of Land Tenure System and Land Reforms.
 18. To understand the nature of Rural Development Programmes.
-

Unit- I Introduction

12 Hours

1. Meaning and Nature of Rural Development
2. Significance of Rural Development
3. Obstacles to Rural Development

Unit- II Land Tenure and Land Reforms

12 Hours

1. Meaning and Forms of Land Tenure System
2. Land Reforms after Independence
3. Green Revolution: Objectives and Achievements

Unit- III Panchayat Raj

12 Hours

1. Meaning and Objectives
2. Structural Aspects as per 73rd Amendment of the Indian Constitution
3. Role of Panchayat in Rural Development

Unit- IV Rural Development Programmes

12 Hours

1. Early Attempts: Sriniketan, Nilkoheri and Firka
2. Community Development Programmes (CDP): Objectives and


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B. A. Fifth Semester

Elective Paper- 5.3

WOMEN STUDIES IN INDIA

Objectives of the Paper:

19. Make the students to know about the Nature and Scope of Women Studies.
 20. To understand the concepts of Gender Theories.
 21. To understand the Problems of Women and Empowerment.
-

Unit- I Introduction

12 Hours

1. Emergence of Women Studies in India
2. Meaning, Nature and Scope
3. Importance of Women Studies

Unit- II Basic Concepts

12 Hours

1. Sex and Gender
2. Feminism
3. Gender Theories (Liberal Feminism, Radical Feminism)

Unit- III Status of Women in India

12 Hours

1. During Ancient India
2. During Medieval India
3. During Modern India

Unit- IV Problems of Women

12 Hours

1. Inequality - Social, Economic and Political
2. Crimes and Atrocities against women
3. Problems of Dowry


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Unit- V Empowerment of Women in India

12 Hours

1. Strategies of Empowerment
2. Role of Govt. in the Development of women, Programmes and Legislations
3. Women welfare Measures undertaken by Govt. of Karnataka

References:

1. Altekarr A.S. (1983): The Position of Women in Hindu Civilisation. Delhi: Motilal Banarassidass, 2nd Ed., 5th Reprint.
2. Chanana, Karuna (1988): Socialization, Women, and Education: Explorations in Gender Identity. New Delhi: Orient Longman.
3. Desai Neera and M. Krishnaraj (1987): Women and Society in India. Delhi: Ajanta
4. Forbes, G. (1998): Women in Modern Indian Society. New Delhi: Sage Publication.
5. Ghandially, Rehana (ed) (1988): Women in Indian Society. New Delhi: Sage Publication.
6. Maccoby, Eleanor and Carol Jacklin (1975): The Psychology of Sex Differences. Stanford: Stanford University.
7. McCormack, C., and M. Starathern (1980): Nature, Culture, and Gender. Cambridge: Cambridge University.
8. Sharmila Rage (2004) : Sociology of Gender, Sage, New Delhi
9. Sharma Ursula (1983) : Women, Work and property in north west India London: Tavistock
10. Shulamitz, Reinharz and Lynn Davidmann (1991): Feminist Research Methods, New York: Oxford University.
11. Tong, RoseMarie, (1989): Feminist Thought : A Comprehensive Introduction, Colarodo: West view Press
12. Whelham, Imelda (1997): Modern Feminist Thought: Edinburgh University Press.


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Books for Study:

1. Lao Stress: What is Political Philosophy.
- Robert N. Bock: Handbook in Social Philosophy.
- J Fierg: Social Philosophy.
- A.K Sinha: Outlines of Social Philosophy
- N.V. Joshi: Social and Political Philosophy.
- D.D.Raphael: Problems of political Philosophy
- M.K.Gandhi: Hind Swaraj.
- K.G. Mashruwalla; Gandhi and Marx.
- T.S. Devadass: Sarvodaya and the problem of Political Sovereignty.
- Peter Singer: Practical Ethics
- S.J.Benn & R.S.Peters: Social Principales and Democratic State.
- K.Roy& C.Gupta (Eds): Essayes in Social and Political Philosophy.

Sociology (Optional)

With effect from 2017-18 (2015-16 Scheme)

B. A. Sixth Semester

Compulsory Paper- 6.1

SOCIAL PROBLEMS IN INDIA**Objectives of the Paper:**

To understand about the Nature of Social Problems.

To understand the Nature & Causes of Changing Crimes in India.

To understand the Nature of Vulnerable Problems of Life.

Unit- I Introduction**12 Hours**

Meaning and Nature of Social Problems

Causes and Consequences of Social Problems

Social Problems and Social Disorganisation

Unit- II Crime**12 Hours**

Meaning, Nature and Types

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B. A. Sixth Semester

Elective Paper- 6.3

SOCIAL MOVEMENTS IN INDIA

Objectives of the Paper:

- To understand the Significance of Sociology in understanding the Ideology of Social Movements.
 - To know the Role of various Social Reformers in Social Movements.
 - To understand about the Emergence of Environmental Movements and their Significance.
-

Unit- I Introduction

12 Hours

Meaning and Nature of Social Movements

Scope and Significance of Sociology of Social Movements

Types of Social Movements

Unit- II Reform Movements

12 Hours

Veershaiva Movements

Arya Samaj and Brahmo Samaj

Ramkrishna Mission

Unit- III Dalit and Backward Class Movements

12 Hours

Emergence of Dalit Movement in India

Role of Jotibha Phule and Babasaheb Ambedkar

Backward Class Movements in India


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ರಾಣಿ ಚನ್ನಮ್ಮ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

ಶಾಸ್ತ್ರೀಯ ಕನ್ನಡ ಭಾಷಾ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ

ಬಿ.ಎ. ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್ (ಎನ್.ಇ.ಪಿ) (DSC) ಎರಡನೆಯ ಪತ್ರಿಕೆಯ ಪಠ್ಯಕ್ರಮ
2022-23ರಿಂದ ಅನ್ವಯವಾಗುವಂತೆ

ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್ ಕನ್ನಡ (DSC)

ನಾಲ್ಕನೆಯ ಪತ್ರಿಕೆ-೮ (ಎ)ಜಾನಪದ ಹಾಗೂ ಮಹಿಳಾ ಸಾಹಿತ್ಯ



(ಕ್ರೆಡಿಟ್‌ಗಳು-೩, ಪಾಠದ ಅವಧಿ-೩ ಗಂಟೆಗಳು, ಲಿಖಿತ ಪರೀಕ್ಷೆಗೆ ೬೦ ಅಂಕಗಳು ಹಾಗೂ ಆಂತರಿಕ ಗುಣಾಂಕಗಳು-೪೦)

೧. ಜನಪದ-ಜಾನಪದ ಚರ್ಚೆ, ಜಾನಪದ ಸಿದ್ಧಾಂತಗಳು, ಭೌತಿಕ ಜಾನಪದ, ಮೌಖಿಕ ಜಾನಪದ, ಜಾನಪದ ಕಾವ್ಯ.

೨. ರಂಗಭೂಮಿ ಹಾಗೂ ಪ್ರದರ್ಶನ ಕಲೆಗಳು, ಜನಪದ ಮಹಾಕಾವ್ಯಗಳು, ಜಾನಪದದಲ್ಲಿ ಪ್ರಾದೇಶಿಕತೆ, ದೈವತಗಳು, ನಂಬಿಕೆಗಳು, ಐತಿಹ್ಯಗಳು

೩. ಜಾನಪದ ಕ್ಷೇತ್ರಕಾರ್ಯ, ವಿಧಾನ, ಪ್ರಶ್ನಾವಳಿ, ಜಾನಪದ ಸಾಹಿತ್ಯ ಸಂಗ್ರಹ, ವರ್ಗೀಕರಣ, ವಿಶ್ಲೇಷಣೆ

✓ ೪. ಮಹಿಳಾ ಸಾಹಿತ್ಯ: ಸ್ತ್ರೀವಾದಿ ಓದು ಮತ್ತು ಸ್ತ್ರೀವಾದಿ ವಿಮರ್ಶೆ, ಕನ್ನಡ ಸಾಹಿತ್ಯದಲ್ಲಿ ಮಹಿಳೆಯ ಪ್ರತಿನಿಧೀಕರಣ, ಕನ್ನಡ ಲೇಖಕಿಯರು ಮತ್ತು ಜನಪ್ರಿಯ ಸಾಹಿತ್ಯ

✓ ೫. ಅಧ್ಯಯನಕ್ಕಾಗಿ ಪಠ್ಯಗಳು : 'ಗುಲಾಬಿ ಟಾಕೀಸ್' - ವೈದೇಹಿ, ಸ್ತ್ರೀವಾದ - ಡಾ. ಎಚ್.ಎಸ್. ಶ್ರೀಮತಿ

ಪರಾಮರ್ಶನ ಗ್ರಂಥಗಳು :

೧. ಜಾನಪದ ಸ್ವರೂಪ - ಡಾ. ಹಾ.ಮಾ.ನಾ.

೨. ಸೈದ್ಧಾಂತಿಕ ಜಾನಪದ - ಅಂಬಳಿಕೆ ಹಿರಿಯಣ್ಣ

೩. ಜಾನಪದ ಪ್ರಕಾರಗಳು - ತೀ.ನಂ. ಶಂಕರನಾರಾಯಣ

೪. ಜಾನಪದ ಸಿದ್ಧಾಂತಗಳು - ವೀರಣ್ಣ ದಂಡೆ

೫. ಜಾನಪದ ತತ್ವಗಳು ಮತ್ತು ಸಿದ್ಧಾಂತಗಳು - ಅಂಬಳಿಕೆ ಹಿರಿಯಣ್ಣ

೬. ಜಾನಪದ ದರ್ಶನ - ಕರ್ನಾಟಕ ವಿ.ವಿ.

೭. ಕರ್ನಾಟಕ ಜಾನಪದ - ಜಾನಪದ ಅಕಾಡೆಮಿ

೮. ಜಾನಪದ ಸಾಹಿತ್ಯ - ಗಿರಡ್ಡಿ ಗೋವಿಂದರಾಜ

೯. ಜಾನಪದ ವೀಕ್ಷಣೆ - ಅಂಬಳಿಕೆ ಹಿರಿಯಣ್ಣ

೧೦. ಜಾನಪದ ಕಾವ್ಯಗಳು - ಸಂ. ಆರ್ಪಿಯಸ್ ಸುಂದರಂ, ಮೈಸೂರು ವಿ. ವಿ.

೧೧. ಸ್ತ್ರೀವಾದ ಮತ್ತು ಮಹಿಳಾ ಅಧ್ಯಯನ ಒಂದು ಪ್ರವೇಶಿಕೆ - ಡಾ.ಡಿ. ಮಂಗಲಾ ಪ್ರಿಯದರ್ಶಿನಿ

೧೨. ಮಹಿಳಾ ಅಧ್ಯಯನದ ತಾತ್ವಿಕ ನೆಲೆಗಳು ಮತ್ತು ಮಹಿಳಾ ಚಟುವಟಿಕೆಗಳು - ಡಾ.ಪ್ರೀತಿ ಶುಭಚಂದ್ರ

೧೩. ಸ್ತ್ರೀವಾದಿ ದಿಕ್ಸೂಚಿ - ಡಾ.ಇಂದಿರಾ ಆರ್.

೧೪. ಮಹಿಳಾ ಸಂಕಥನ - ಗಾಯತ್ರಿ ನಾವಡ

೧೫. ಸ್ತ್ರೀವಾದ - ಸುಮಿತ್ರಾಬಾಯಿ ಬಿ.ಎನ್.

೧೬. ಮಹಿಳಾ ಸಾಹಿತ್ಯ ಸಮೀಕ್ಷೆ - ಆರ್ಯಾಂಬಾ ಪಟ್ಟಾಭಿ

೧೭. ಆಧುನಿಕ ಮಹಿಳಾ ಸಾಹಿತ್ಯ - ಉಷಾ ಎಂ.

೧೮. ಸ್ತ್ರೀವಾದ ಪದವಿವರಣ ಕೋಶ - ಎಚ್.ಎಸ್.ಶ್ರೀಮತಿ

೧೯. ಸ್ತ್ರೀವಾದ : ಅಂಚಿನಿಂದ ಕೇಂದ್ರದಡೆಗೆ - ಎಚ್.ಎಸ್.ಶ್ರೀಮತಿ

೨೦. ಎಲ್ಲರಿಗಾಗಿ ಸ್ತ್ರೀವಾದ - ಎಚ್.ಎಸ್.ಶ್ರೀಮತಿ

Principal,

G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College

SINDGI-586128. College Code: 523

ರಾಣಿ ಚನ್ನಮ್ಮ ವಿಶ್ವವಿದ್ಯಾಲಯ
ಶಾಸ್ತ್ರೀಯ ಕನ್ನಡ ಭಾಷಾ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ
ಕನ್ನಡ ಪಠ್ಯಕ್ರಮ
ಮೂರನೆಯ ಸೆಮಿಸ್ಟರ್ ಬಿ.ಕಾಂ

(Ability Enhancement Compulsory Course)
Language-1

(ಪರೀಕ್ಷೆ 4 ಗಂಟೆಗಳ ಪಾಠ, 3 ಕ್ರೆಡಿಟ್‌ಗಳ ಪತ್ರಿಕೆ, ಒಟ್ಟು ಅಂಕಗಳು-100, ಥಿಯರಿ ಪರೀಕ್ಷೆಗೆ-60 ಅಂಕಗಳು, ಆಂತರಿಕ ಗುಣಾಂಕಗಳಿಗೆ-40 ಅಂಕಗಳು, ಸೆಮಿಸ್ಟರ್ ಅಂತ್ಯಕ್ಕೆ 2 ಗಂಟೆಗಳ ಪರೀಕ್ಷೆ, ಆಂತರಿಕ ಗುಣಾಂಕಗಳ ಕುರಿತು ನೀಡಿದ ನಿರಂತರ ಮೌಲ್ಯಮಾಪನ ಪದ್ಧತಿಯನ್ನು ಮೇಲೆ ತಿಳಿಸಿರುವಂತೆ ನಡೆಸುವುದು.)

ಘಟಕ - 1 : ಮನರಂಜನಾ ಮಾಧ್ಯಮ

1. ಮುದ್ದಣ ಮನೋರಮೆಯ ಸಲ್ಲಾಪ
2. ನನ್ನ ಬಣ್ಣದ ಬದುಕು (ವಿಣಿಗಿ ಬಾಳಪ್ಪ)
3. ಸಿನಿಮಾ ಒಂದು ಜನಪದ ಕಲೆ
4. ಕರ್ನಾಟಕದಲ್ಲಿ ಆಕಾಶವಾಣಿ ಮತ್ತು ದೂರದರ್ಶನ

- ಮುದ್ದಣ
- ದು. ನಿಂ. ಬೆಳಗಲಿ
- ಬರುಗೂರು ರಾಮಚಂದ್ರಪ್ಪ
- ಎ. ಎಸ್. ಚಂದ್ರಮೌಳಿ

ಘಟಕ - 2 : ಮಾರುಕಟ್ಟೆ

1. ದೊರಕೊಂಡುದು ನಿನಗೆ ಪಾತಕಂ ಬಾಲವಧಂ
2. ಕುರುಡು ಕಾಂಚಾಣ
3. ರೈತರ ಆತ್ಮಹತ್ಯೆ ಮತ್ತು ಮಧ್ಯಮ ವರ್ಗ
4. ದೇಹ ಸರಕಾಗುವುದು ಬೇಡ

- ರನ್ನ
- ದ. ರಾ. ಬೇಂದ್ರೆ
- ರಹಮತ್ ತರಿಕೆರೆ
- ಸಿ. ಜಿ. ಮಂಜುಳಾ

ಘಟಕ - 3 : ಲಿಂಗಸಮಾನತೆ

✓ 1. ಶರಣರು ಕಟ್ಟಿ ಬಯಸಿದ ಸ್ತ್ರೀ ಸಮಾಜ

2. ನಾವು ಹುಡುಗಿಯರೇ ಹೀಗೆ
3. ಡಾ. ಬಿ. ಆರ್. ಅಂಬೇಡ್ಕರ್ ಮತ್ತು ಮಹಿಳಾ ವಿಮೋಚನೆ
4. ದಾಸ್ಯದ ಕೆಲವು ಮಗ್ಗಲುಗಳು (ಹೆಂಗಸರಿಗೆ ಮೂಲಭೂತ ಹಕ್ಕುಗಳ ನಿರಾಕರಣೆ) - ಶ್ರೀಮತಿ. ಮಧುಕೇಶ್ವರ ಅನು. ಎಲ್. ಜಿ. ಮೀರಾ

- ಎಂ. ಎಂ.ಕಲಬುರ್ಗಿ
- ಪ್ರತಿಭಾ ನಂದಕುಮಾರ
- ಧರಣಿ ದೇವಿ ಮಾಲಗತ್ತಿ
- ಶ್ರೀಮತಿ. ಮಧುಕೇಶ್ವರ ಅನು. ಎಲ್. ಜಿ. ಮೀರಾ

ಘಟಕ - 4 : ಸಂಕೀರ್ಣ

1. ಮೂರು ಮೆಟ್ಟಿಲ ಕಥೆ (ಬಲ್ಲೇರಿಯನ್)
2. ಶಿವ ಶಿವ ಅಂತಾ ಹಲಬುದು ಯಾಕೊ
3. ಕವಿತೆ ಮತ್ತು ನಾನು

- ಅನು. ಬಿ. ವಿ. ವೀರಭದ್ರಪ್ಪ
- ಮೀರಾಸಾಬ ಮುಲ್ಲಾ
- ಶಿವಕುಮಾರ ದಂಡಿನ

ವಿ.ಸೂ : ಸದರಿ ಪಠ್ಯಕ್ರಮವು ಮತ್ತೆ ರೂಪದಲ್ಲಿ ಪ್ರಕಟವಾಗುವುದನ್ನು ಕಾಯದೆ, ಅಧ್ಯಾಪಕರುಗಳು ಈ ಮೇಲಿನ ಪಠ್ಯಕ್ರಮ ಸಾಮಗ್ರಿಯನ್ನು ತಮ್ಮ ಮೂಲದಿಂದ ಸಂಗ್ರಹಿಸಿಕೊಂಡು ಪಾಠಬೋಧನೆ ಮಾಡಲು ತಿಳಿಸಲಾಗಿದೆ.

Principal,
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STNDGI-586128. College Code: 523

ರಾಣಿ ಚನ್ನಮ್ಮ ವಿಶ್ವವಿದ್ಯಾಲಯ
ಶಾಸ್ತ್ರೀಯ ಕನ್ನಡ ಭಾಷಾ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ
ಕನ್ನಡ ಪಠ್ಯಕ್ರಮ
ಮೂರನೆಯ ಸೆಮಿಸ್ಟರ್ ಬಿ.ಎಸ್.ಸಿ
(Ability Enhancement Compulsory Course)

Language-1

(ವಾರಕ್ಕೆ 4 ಗಂಟೆಗಳ ಪಾಠ, 3 ಕ್ರೆಡಿಟ್‌ಗಳ ಪತ್ರಿಕೆ, ಒಟ್ಟು ಅಂಕಗಳು-100, ಥಿಯರಿ ಪರೀಕ್ಷೆಗೆ-60 ಅಂಕಗಳು, ಆಂತರಿಕ ಗುಣಾಂಕಗಳಿಗೆ-40 ಅಂಕಗಳು, ಸೆಮಿಸ್ಟರ್ ಅಂತ್ಯಕ್ಕೆ 2 ಗಂಟೆಗಳ ಪರೀಕ್ಷೆ, ಆಂತರಿಕ ಗುಣಾಂಕಗಳ ಕುರಿತು ನೀಡಿದ ನಿರಂತರ ಮೌಲ್ಯಮಾಪನ ಪದ್ಧತಿಯನ್ನು ಮೇಲೆ ತಿಳಿಸಿರುವಂತೆ ನಡೆಸುವುದು.)

✓ ಘಟಕ - 1 : ಮಾನವೀಯತೆ

5. ಬಸವಣ್ಣನವರ ವಚನಗಳು
(ಏನ ಬಂದಿರಿ ಹದುಳವಿದ್ದಿರೆ, ದಯವಿಲ್ಲದ ಧರ್ಮ ಅದಾವುದಯ್ಯ, ಕಲ್ಲನಾಗರ ಕಂಡರೆ)
6. ಪುರಂದರದಾಸರ ಕೀರ್ತನೆಗಳು
(ಮಾನವ ಜನ್ಮ ದೊಡ್ಡದು ಹಾಗೂ ಬೆಲ್ಲದ ಕಟ್ಟಿಯ ಕಟ್ಟಿ)
7. ಮೂರು ತತ್ವಪದಗಳು
(ಬಿದ್ದಿಯಬೇ ಮುದುಕಿ - ಶಿಶುನಾಳ ಶರೀಫ, ಮುದಚೆಟ್ಟಲ್ಯಾದ ಹೇಳಣ್ಣ - ಕಡಕೋಳ ಮಡಿವಾಳಪ್ಪ, ಯಾಕೆ ಬಡಿದಾಡತಿ ತಮ್ಮ - ಜನಪದ ತತ್ವಪದ)

ಘಟಕ - 2 : ಪ್ರವಾಸ

- | | |
|---|------------------------------|
| 1. ಭೀಮಸೇನ ವೃಷಕೇತುವಿನೊಂದಿಗೆ ಭದ್ರವತಿಗೆ ಹೋಗುವುದು | - ಲಕ್ಷ್ಮೀಶ |
| 2. ಸೆಲ್‌ನಲ್ಲಿ ಕಳೆದ ಒಂದು ದಿನ | - ಗೊರೂರು ರಾಮಸ್ವಾಮಿ ಅಯ್ಯಂಗಾರ್ |
| 3. ನಡೆದುಬಂದ ದಾರಿ | - ಗೋಪಾಲಕೃಷ್ಣ ಅಡಿಗ |
| 4. ಬೆಟ್ಟ ನಿಷ್ಠಾವಂತ ಅಧ್ಯಾಪಕ | - ಹಾ. ಮಾ. ನಾಯಕ |

ಘಟಕ - 3 : ವಿಚಾರ ಕ್ರಾಂತಿ

- | | |
|--|--------------------|
| 1. ವೈಚಾರಿಕತೆ | - ಹೆಚ್. ನರಸಿಂಹಯ್ಯ |
| 2. ಶ್ರೇಷ್ಠತೆಯ ವ್ಯಸನ | - ಕೆ. ವಿ. ಸುಬ್ಬಣ್ಣ |
| 3. ವಚನ ಸಾಹಿತ್ಯ : ಸ್ತ್ರೀ ಸಂವೇದನೆ ಮತ್ತು ಭಾಷೆ | - ಎಸ್. ಎಸ್. ಅಂಗಡಿ |
| 4. ದಾರಿಯ ಬುತ್ತಿ | - ಶಂಬಾ ಜೋಶಿ |

ಘಟಕ - 4 : ಸಂಕೀರ್ಣ

- | | |
|------------------------------------|-----------------------|
| 1. ಮಿಲರೇಪ | - ಎಚ್. ಎಸ್. ಶಿವಪ್ರಕಾಶ |
| 2. ಅಂಗದೊಳಗ ಅಲಾಂವಿ ಆಡಿನಾ | - ಶಿರಗೂರು ಕಲೈಶ |
| 3. ಸೂರ್ಯ ಚಂದ್ರರಿಲ್ಲದ ನಾಡಿನಲ್ಲಿ | - ಎಚ್. ಟಿ. ಮೋತೆ |
| 4. ಭಾಷಣ ಕಲೆ ಮತ್ತು ವ್ಯಕ್ತಿತ್ವ ವಿಕಸನ | - ವಿಷ್ಣು ಎಂ. ಶಿಂದೆ |

ವಿ.ಸೂ : ಸದರಿ ಪಠ್ಯಕ್ರಮವು ಮಸ್ತಕ ರೂಪದಲ್ಲಿ ಪ್ರಕಟವಾಗುವುದನ್ನು ಕಾಯಿದೆ, ಅಧ್ಯಾಪಕರುಗಳು ಈ ಮೇಲಿನ ಪಠ್ಯಕ್ರಮ ಸಾಮಗ್ರಿಯನ್ನು ತಮ್ಮ ಮೂಲದಿಂದ ಸಂಗ್ರಹಿಸಿಕೊಂಡು ಪಾಠಬೋಧನೆ ಮಾಡಲು ತಿಳಿಸಲಾಗಿದೆ.


Principal,
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STNDGI-586128, College Code: 57

ರಾಣಿ ಚನ್ನಮ್ಮ ವಿಶ್ವವಿದ್ಯಾಲಯ
ಶಾಸ್ತ್ರೀಯ ಕನ್ನಡ ಭಾಷಾ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ
ಕನ್ನಡ ಪಠ್ಯಕ್ರಮ
ನಾಲ್ಕನೆಯ ಸೆಮಿಸ್ಟರ್ ಬಿ.ಎಸ್.ಸಿ
(Ability Enhancement Compulsory Course)

Language-1

(ವಾರಕ್ಕೆ 4 ಗಂಟೆಗಳ ಪಾಠ, 3 ಕ್ರೆಡಿಟ್‌ಗಳ ಪತ್ರಿಕೆ, ಒಟ್ಟು ಅಂಕಗಳು-100, ಥಿಯರಿ ಪರೀಕ್ಷೆಗೆ-60 ಅಂಕಗಳು, ಆಂತರಿಕ ಗುಣಾಂಕಗಳಿಗೆ-40 ಅಂಕಗಳು, ಸೆಮಿಸ್ಟರ್ ಅಂತ್ಯಕ್ಕೆ 2 ಗಂಟೆಗಳ ಪರೀಕ್ಷೆ, ಆಂತರಿಕ ಗುಣಾಂಕಗಳ ಕುರಿತು ನೀಡಿದ ನಿರಂತರ ಮೌಲ್ಯಮಾಪನ ಪದ್ಧತಿಯನ್ನು ಮೇಲೆ ತಿಳಿಸಿರುವಂತೆ ನಡೆಸುವುದು.)

- ಘಟಕ - 1 : ದಮನಿತ ಲೋಕ**
1. ಪೆಟ್ರೊಮ್ಯಾಕ್ಸ್ ಹೊತ್ತವರು
 2. ಮಾರಿಕೊಂಡವರು
 3. ಅಕ್ಕಿ ಪದ್ಮಶಾಲಿ
 4. ನಮ್ಮರೂಪ್ಪಿ
 5. ವಿಹ್ವಲ

- ಜಂಬಣ್ಣ ಅಮರಚಿಂತ
- ದೇವನೂರು ಮಹಾದೇವ
- ಡಿ. ಡೊಮೆನಿಕ್
- ಬಿ. ಟಿ. ಲಲಿತಾ ನಾಯಕ
- ಬಿ. ಆರ್. ಲಕ್ಷ್ಮಣರಾವ್

- ಘಟಕ - 2 : ಸಹಿಷ್ಣುತೆ**
1. ಕಸವರಮೆಂಬುದು ನೆರೆಸೈರಿಸಲಾರ್ಪೊಡೆ
 2. ಕುಲಕುಲವೆಂದು ಹೊಡೆದಾಡದಿರಿ
 3. ಶರಣ ದರ್ಮದ ಆಧ್ಯಾತ್ಮಿಕ ನಿಲುವುಗಳು
 4. ನಿಮ್ಮೊಡನಿದ್ದು ನಿಮ್ಮಂತಾಗದೆ

- ಕವಿರಾಜಮಾರ್ಗ (ನಾಲ್ಕು ಪದ್ಯಗಳು)
- ಕನಕದಾಸರು
- ಜಿ. ಎಸ್. ಶಿವರುದ್ರಪ್ಪ
- ಕೆ. ಎಸ್. ನಿಸಾರ ಅಹಮ್ಮದ್

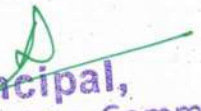
- ಘಟಕ - 3 : ಶ್ರೀಸಾಮಾನ್ಯನ ಬದುಕು**
1. ಉತ್ತರಾದೇವಿ
 2. ಎಲುಬಿನ ಹಂದರದೊಳಗೆ
 3. ಧಣಿಯರ ಬೆಳ್ಳಿಲೋಟ
 4. ಸಿಂಕ್ರಾಮೇಸ್ತ್ರೀ ಮತ್ತು ಅರಿಸ್ವಾಟಲ್

- ಜನಪದ ಗೀತೆ
- ಮೂಡ್ನಾಕೂಡು ಚೆನ್ನಸ್ವಾಮಿ
- ಎಚ್. ನಾಗವೇಣಿ
- ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ

- ಘಟಕ - 4.4 : ಸಂಕೀರ್ಣ**
1. ಯಾವುದು ಒಳ್ಳೆಯ ಕವನ
 2. ಫ. ಗು. ಹಳಕಟ್ಟಿ
 3. ದಲಿತ ಚಳುವಳಿ
 - ✓ 4. ಮಹಿಳಾ ವಿಮೋಚನಾ ಚಳುವಳಿ

- ಚಂಪಾ
- ಬಸವರಾಜ ಜಗಜಂಪಿ
- ಎಲ್. ಹನುಮಂತಯ್ಯ
- ಗಾಯತ್ರಿ ನಾವಡ

ವಿ.ಸೂ : ಸದರಿ ಪಠ್ಯಕ್ರಮವು ಪುಸ್ತಕ ರೂಪದಲ್ಲಿ ಪ್ರಕಟವಾಗುವುದನ್ನು ಕಾಯದೆ, ಅಧ್ಯಾಪಕರುಗಳು ಈ ಮೇಲಿನ ಪಠ್ಯಕ್ರಮ ಸಾಮಗ್ರಿಯನ್ನು ತಮ್ಮ ಮೂಲದಿಂದ ಸಂಗ್ರಹಿಸಿಕೊಂಡು ಪಾಠಬೋಧನೆ ಮಾಡಲು ತಿಳಿಸಲಾಗಿದೆ.


Principal,
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SINDGI-586128. College Code: 5234

ರಾಣಿ ಚನ್ನಮ್ಮ ವಿಶ್ವವಿದ್ಯಾಲಯ

ಶಾಸ್ತ್ರೀಯ ಕನ್ನಡ ಭಾಷಾ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ

ಕನ್ನಡ ಪಠ್ಯಕ್ರಮ

ಮೂರನೆಯ ಸೆಮಿಸ್ಟರ್ ಬಿ.ಬಿ.ಎ/ಬಿ.ಸಿ.ಎ/ಬಿ.ಎಸ್ಸಿ. ಸಿ.ಎಸ್

(Ability Enhancement Compulsory Course)

Language-1

(ವಾರಕ್ಕೆ 4 ಗಂಟೆಗಳ ಪಾಠ, 3 ಕ್ರೆಡಿಟ್‌ಗಳ ಪತ್ರಿಕೆ, ಒಟ್ಟು ಅಂಕಗಳು-100, ಥಿಯರಿ ಪರೀಕ್ಷೆಗೆ-60 ಅಂಕಗಳು, ಆಂತರಿಕ ಗುಣಾಂಕಗಳಿಗೆ-40 ಅಂಕಗಳು, ಸೆಮಿಸ್ಟರ್ ಅಂತ್ಯಕ್ಕೆ 2 ಗಂಟೆಗಳ ಪರೀಕ್ಷೆ, ಆಂತರಿಕ ಗುಣಾಂಕಗಳ ಕುರಿತು ನೀಡಿದ ನಿರಂತರ ಮೌಲ್ಯಮಾಪನ ಪದ್ಧತಿಯನ್ನು ಮೇಲೆ ತಿಳಿಸಿರುವಂತೆ ನಡೆಸುವುದು.)

ಘಟಕ - 1 : ದೈನಂದಿನ ಲಯ

1. ಲೋಕದ ಚೇಷ್ಟೆಗೆ ರವಿ ಬೀಜವಾದಂತೆ
2. ಮುಂಬೈ ಜಾತಕ
3. ಕಾಲ ಮತ್ತು ಗಡಿಯಾರ
4. ಎಳೆಳ ಹೊತ್ತ...
5. ನಾವು ಎಳೆಯರು ನಾವು ಗೆಳೆಯರು

- ಅಕ್ಕಮಹಾದೇವಿ

- ಜಿ. ಎಸ್. ಶಿವರುದ್ರಪ್ಪ
- ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ (ಎಜ್ಜಾನ್ ಬರಹ)
- ಸೋಮಶೇಖರ ಇಮ್ರಾಪೂರ
- ಶಂ. ಗು. ಬಿರಾದರ

ಘಟಕ - 2 : ಸೌಹಾರ್ದ

1. ಧರ್ಮ
2. ದೇವರುಳ ರಾಜ್ಯದಲ್ಲಿ
3. ಮಾನವರಾಗೋಣ
4. ಪ್ರಭುವೇ ನೀನೊಮ್ಮೆ ಹೆಣ್ಣಾಗು

- ಬೆಸಗರ ಹಳ್ಳಿ ರಾಮಣ್ಣ

- ಬೋಳುವಾರು ಮಹಮ್ಮದ ಕುಂಞಿ
- ಜ. ಹೊ. ನಾರಾಯಣಸ್ವಾಮಿ
- ಕೆ. ಶರೀಫಾ

ಘಟಕ - 3 : ಸ್ವಾತಂತ್ರ್ಯ

1. ಸ್ವಾತಂತ್ರ್ಯದ ಹಸಿವು
2. ಯಾರಿಗೆ ಬಂತು ಎಲ್ಲಿಗೆ ಬಂತು
3. ಧರ್ಮ ಬಲೆ ಬೀಸಿದಾಗ
- ✓ 4. ಹೆಣ್ಣಿನ ಸ್ಥಾನಮಾನ

- ಗೋಪಾಲಕೃಷ್ಣ ಅಡಿಗ

- ಸಿದ್ದಲಿಂಗಯ್ಯ
- ಸಾ. ರಾ. ಅಬೂಬಕರ್
- ಶರಶ್ಚಂದ್ರ ಚಟ್ಟೋಪಾಧ್ಯಾಯ ಅನು.ಸಿದ್ದಲಿಂಗ ಪಟ್ಟಣಶೆಟ್ಟಿ

ಘಟಕ - 4 : ಸಂಕೀರ್ಣ

1. ಬೆರಳಿಷ್ಟು ಮಿಸುಕದು
2. ಬುದ್ಧ ಸಂದೇಶ
3. ಬಸವೇಗೌಡನ ಕೋಣ
4. ದೀಪ ಆರಿಸುತ್ತೇನೆ

- ರತ್ನಾಕರವರ್ಣಿ

- ಸ್ವಾಮಿ ಪುರುಷೋತ್ತಮಾನಂದರು
- ಸೋಮಣ್ಣ ಹೊಂಗಳ್ಳಿ
- ಭುವನಾ ಹಿರೇಮಠ

ವಿ.ಸೂ : ಸದರಿ ಪಠ್ಯಕ್ರಮವು ಪುಸ್ತಕ ರೂಪದಲ್ಲಿ ಪ್ರಕಟವಾಗುವುದನ್ನು ಕಾಯದೆ, ಅಧ್ಯಾಪಕರುಗಳು ಈ ಮೇಲಿನ ಪಠ್ಯಕ್ರಮ ಸಾಮಗ್ರಿಯನ್ನು ತಮ್ಮ ಮೂಲದಿಂದ ಸಂಗ್ರಹಿಸಿಕೊಂಡು ಪಾಠಬೋಧನೆ ಮಾಡಲು ತಿಳಿಸಲಾಗಿದೆ.

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Hindi
Syllabus of B.A. with One Major and One Minor Discipline Specific Core
DSC

Title of the Subject/Discipline : A2 हिंदी व्याकरण				
Year	1	Course Code :DSC-2-HINDI (B.A.) Course Title/Discipline : Hindi Grammar	Credits	3
Sem.	1		Hours	4
Formative Assessment Marks :40 Summative Assessment Marks :60 Duration of ESA :64 hrs.				
Learning Outcomes	1. शुद्ध भाषा का प्रयोग करने में सक्षम होंगे। 2. भाषा से संबंधित नियमों का ज्ञान प्राप्त होगा। 3. भाषा को वैज्ञानिक दृष्टिकोण से देखने में सक्षम होंगे। 4. भाषावी श्रुति के प्रति रुचि निर्माण होगी।			
Unit No.	Course Content		Suggested Pedagogy	Hours L/P/L
Unit I	प्रयोग के आधार पर शब्द के भेद : संज्ञा सर्वनाम, विशेषण, क्रिया, अव्यय		1. कक्षा व्याख्यान 2. संवाद पद्धति	16
Unit II	संदोषण (सारलेखन) पुल्लिखन (भाव विस्तार)		3. सामूहिक चर्चा	16
Unit III	लिंग भेद, वचन भेद		4. रचनात्मक अभिव्यक्ति	16
Unit IV	समानार्थी शब्द, विपरीतार्थक शब्द			16
Recommended Learning Resources				
Print Resources	1. हिंदी व्याकरण : काननदा प्रसाद गुप्त, प्रभात प्रकाशन 2. हिंदी व्याकरण रचना : संपादक गो. म. दामोदर, डॉ. अशोक कामत, मुद्रकुल प्रतिष्ठान, पुणे 3. शिक्षार्थी हिंदी व्याकरण : संपादक डॉ. नागप्रसाद, राजभास्व अर्जुन सन्त, दिल्ली			
Digital Resources	https://www.mycoraching.in/p/hindi-grammar.html https://www.nargrammar.com/2020/05/sangya-samam-kriya-vishasan.html https://www.mycoraching.in/2018/09/Ling-Gender-in-hindi.html https://www.hindisarkarresult.com/vachan-hindi/ https://www.youtube.com/watch?v=5u1nVmLUyHE https://www.youtube.com/watch?v=VAV0J4nq_nI			

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Semester-3: BSc/B Sc (Honors)**Title of the Course: Open Elective: Fuel Chemistry and Environmental Chemistry**

Course	Credits	No. of Classes/ Week	Total No. of Lecture Hours	Duration of Exam in hrs	Internal Assessment Marks	Semester End Exam Marks	Total Marks
Theory	03	03	42	2	40	60	100

This course provides a broad introduction to the fundamental principles of Fuel chemistry, and Environmental Chemistry. The student will gain an understanding of basic and practical applications aspects of Fuels and environmental chemistry. This course is a valuable prerequisite for taking more technically challenging courses that will be required for career development.

Course Objectives

This course will deal with

1. Types of energy sources, concept of fuels, Petroleum and Environmental chemistry
2. Concept of different types of fuels and calorific values,
3. Basic principles of fuel sources, their preparation and applications.
4. Different types of lubricants and their applications
5. Concept of pollution, types of pollution and its prevention.

Expected Course Outcomes

Upon completion of the course students will be able to

1. Understand the concept of fuels, and their classifications.
2. Learn the different types of fuels and their applications.
3. Know the different types of pollution and their prevention

UNIT-I: FUEL CHEMISTRY:

14hrs

Review of energy sources (renewable and non-renewable). Classification of fuels and their calorific value. Coal: Uses of coal (fuel and nonfuel) in various industries, its composition, carbonization of coal. Coal gas, producer gas and water gas—composition and uses. Fractionation of coal tar, uses of coal tar bases chemicals, requisites of a good metallurgical coke, Coal gasification (Hydro gasification and Catalytic gasification). Petroleum and Petrochemical Industry: Composition of crude petroleum, Refining and different types of petroleum products and their applications

UNIT-II

14 hrs

Fractional Distillation (Principle and process), Cracking (Thermal and catalytic cracking), Reforming Petroleum and non-petroleum fuels (LPG, CNG, LNG, bio-gas, fuels derived from biomass), fuel from waste, synthetic fuels (gaseous and liquids), clean fuels.

Lubricants: Classification of lubricants, lubricating oils (conducting and non-conducting) Solid and semisolid lubricants, synthetic lubricants. Properties of lubricants (viscosity index, cloud point, pore point) and their determination.

UNIT-III ENVIRONMENTAL CHEMISTRY

14 hrs

Energy and Environment: Sources of energy: coal, petrol and natural gas. Nuclear fusion/fission, solar energy, hydrogen and geo-thermal energy.

3 hrs

Air pollution: Major regions of atmosphere,

Air pollutants: types, sources, particle size and chemical nature. Control measures of air pollution. Photochemical smog: its constituents and photochemistry. Green house effect, global warming and ozone depletion.

4 hrs

Water pollution, water quality standards: Water pollutants and their sources. Industrial effluents and their treatment (primary and secondary treatment). Sludge disposal. Water quality parameters for waste water, industrial water and domestic water.

Nuclear pollution: Disposal of nuclear waste, nuclear disaster and its management. 7hrs

Reference:

1. Stocchi, E. Industrial Chemistry, Vol-I, Ellis Horwood Ltd. UK (1990).
2. Jain, P.C. & Jain, M. Engineering Chemistry Dhanpat Rai & Sons, Delhi.
3. Sharma, B.K. & Gaur, H. Industrial Chemistry, Goel Publishing House, Meerut (1996).
4. Environmental Chemistry, A. K. De, 6th Edn. New Age International (P) Ltd., (2008).
5. Environmental Chemistry-S. K. Banerji, (Prentice Hall India), 1993
6. Industrial Chemistry, B.K.Sharma, 9th Edn. Krishna Prakashan Media (P) Ltd. Meerut (1997-98)

B.Sc. BOTANY SEMESTER IV

NEP

Title of the Course: Ecology and Conservation Biology

Number of Theory Credits	Total Lecture Hours/Semester	Number of Practical Credits	Total Practical hours/Semester
04	56	02	56
Contents of Theory Course			
Unit 1	Topics		Teaching Hours
Unit I	Introduction to Ecology and Conservation Biology: Definitions, Principles of Ecology, Brief History, Major Indian Contributions, Scope and importance. Ecological levels of organisation. Ecological factors: Climatic factors: light, temperature, precipitation and humidity. Edaphic factors: Soil and its types, soil texture, soil profile, soil formation; physicochemical properties of soil - mineral particle, soil pH, soil aeration, organic matter, soil humus and soil microorganisms. Topographic Factors: Altitude Ecological groups of plants and their adaptations: Morphological and anatomical adaptations of hydrophytes, xerophytes, epiphytes and halophytes.		15 Hrs
Unit II	Ecosystem Ecology: Introduction, types of ecosystems with examples -terrestrial and aquatic, natural and artificial. Structure of ecosystem: Biotic and Abiotic components, detailed structure of a pond ecosystem. Ecosystem functions and processes: Food chain-grazing and detritus; Food web. Ecological pyramids -Pyramids of energy, biomass and number. Principles of Energy flow in ecosystem. Bio-geo chemical cycles: Gaseous cycles -carbon and nitrogen, Sedimentary cycle Phosphorus. Ecological succession: Definition, types- primary and secondary. General stages of succession. Hydrosere and xerosere. Community Ecology: Community and its characteristics - frequency, density, Abundance, cover and basal area, phenology, stratifications, life-forms. Concept of Ecotone and Ecotypes. Intra-specific and Inter-specific interactions with examples. Ecological methods and techniques: Methods of sampling plant communities - transects and quadrates. Remote sensing as a tool for vegetation analysis, land use - land cover mapping. Population Ecology: Population and its characteristics - Population density, natality, mortality, age distribution,		15 Hrs

	population growth curves and dispersal.	
Unit III	Phytogeography and Environmental issues: Theory of land bridge, theory of continental drift, polar oscillations and glaciations. Centre of origin of plant – Vavilov's concept, types. Phytogeographical regions – concept, phytogeographical regions of India. Vegetation types of Karnataka – Composition and distribution of evergreen, semievergreen, deciduous, scrub, mangroves, shoal forests and grasslands. An account of the vegetation of the Western Ghats. Pollution: Water pollution: Causes, effect, types; water quality indicators, water quality standards in India, control of water pollution (Waste water treatment). Water pollution disasters – National mission on clean Ganga, Minimata, Pacific gyre garbage patch, Exxon valdez oil spill. Air pollution: Causes, effect, air quality standards, acid rain, control. Soil pollution: Causes, effect, solid waste management, control measures of soil pollution.	11 Hrs
Unit IV	<i>Biodiversity and its conservation: Biodiversity: Definition, types of biodiversity - habitat diversity, species diversity and genetic diversity, Global and Indian species diversity. SDG's in biodiversity conservation. Values of Biodiversity – Economic and aesthetic value, Medicinal and timber yielding plants. NTFP. Threats to biodiversity. Concept of Biodiversity Hotspots, Biodiversity hot spots of India. Concept of endemism and endemic species. ICUN plant categories with special reference to Karnataka/ Western Ghats. Biodiversity Conservation- Indian forest conservation act, Biodiversity bill (2002). Conservation methods – In-situ and ex-situ methods In-situ methods – Biosphere reserves, National parks, Sanctuaries, Sacred grooves. Ex-situ methods- Botanical gardens, Seed bank, Gene banks, Pollen banks, Culture collections, Cryopreservation.</i>	15 Hrs
	Total	56 Hrs


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Sixth Semester B.Sc. (Botany) Elective IV

Paper Code: BOTDSET6.2B
Teaching Hours: 4Hrs / Week
Teaching Hours:60

Paper Title : Biofertilizers and Organic Farming
Marks: Th-80+IA-20
Credits :3

Unit 1:

- **Manures and Biofertilizers:** Need for fertilizers, manures. Manure composition. Manures for crop productivity.

Differences between fertilizers and biofertilizers: pH changes and water contamination.

- **Organic Farming:** Organic farming – Green manuring and organic fertilizers, Recycling of bio-degradable municipal, agricultural and industrial wastes, Biocompost making- types, method of vermicomposting, Panchakavya. Biological pest control (neem)

15 Hours

Unit 2:

- **Bacterial Biofertilizers:** General account on the microbes used as bio fertilizer. *Azotobacter*: classification, characteristics– crop response to *Azotobacter* inoculum, maintenance and mass multiplication. *Rhizobium* – isolation, identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.

15 Hours

Unit 3:

- **Algal Biofertilizers;** *Azospirillum*: isolation and mass multiplication – carrier based inoculant, associative effect of different microorganisms. *Azolla* and *Anabaena azollae* association, nitrogen fixation, factors affecting growth, *Azolla* in rice cultivation.

15 Hours

Unit 4:

15 Hours


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**GENDER AND POLITICS**

Open Elective- OE- 3.1

Course Title: GENDER AND POLITICS	
Total Contact Hours: 45	Course Credits: 3
No. of Teaching Hours/Week: 3	Duration of ESA/Exam: 2 Hours
Formative Assessment Marks: 40	Summative Assessment Marks: 60+40=100

Course Objective:**Learning Outcomes:**

At the end of the course the students shall -

- Answer how ideologies have shaped the women in politics
- Bring awareness of the relevance of gender issues in politics.
- Through discussions on women and governance understand the ground realities about politics in relation to women.

Unit	Contents of Course-OE-3.1	45 Hours
Unit-I	Chapter-1: Defining Gender, Significance of Gender Studies, Difference between Gender Studies and Women Studies, Feminist Perspectives (with reference to India), Opportunities and Constraints. Chapter-2: Gender Imbalance in Political Representation and Electoral Process, Gender Discrimination in Indian Politics -	15 Hours

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	including LGBTQ, Feminist Critique of Politics. Chapter-3: Governance and Gender Structures, Gender Budgeting and Gender Issues in Governance.	
Unit-II	Chapter-4: Gender and Empowerment Process: Education, Economic, Political and Socializing and sensitizing gender issues. Chapter-5: Gender Differentiation in Political Parties and Leadership, Challenging Gender Stereotypes in Socio-Political sphere. Chapter-6: Capacity Building and Role of Women in Karnataka Politics, Women Representation in Local Governments.	15 Hours
Unit- III	Chapter-7: Women and Poverty, Women and Health, Women and wealth creation, Violence against Women, Women and Armed Conflict. Chapter-8: Women and Literature, Women and the Media, Women and the Environment. Chapter-9: Women and Societal Challenges: Dowry, Domestic Violence, Girl Child - Programs for Empowerment of Women,	15 Hours

Exercise:

- Conduct one day workshop and make an assessment of role of women in politics.
- Collage making, short films and video watching can be done by the students and measures can be discussed to minimise the gender gap.
- Students can make field visits to understand the persistent of patriarchal values and traditions.


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COURSE - 8
GENDER STUDIES

Cour se	Type of Course	Theory / Practic al	Credit s	Instruction hour per week	Total No. of Lectures/Ho urs / Semester	Durati on of Exam	Formati ve Assessm ent Marks	Summ ative Asses sment Marks	Tota l Mar ks
08	DSCC	Theory	03	03	45hrs	2 1/2hrs	40	60	100

COURSE OUTCOME :

After completion of course, students will be able to:

1. Understand the concept of gender studies
2. Learn the basics of patriarchy, sex and gender and gynocentrism
3. Understand the significance of Gender as a discourse
4. Appreciate literature by women writers

COURSE 8: GENDER STUDIES (PART 1)	Total Hrs: 45
UNIT-I INTRODUCTION TO GENDER STUDIES	15hrs
Concepts and trends: Sex and Gender, Femininity, Body, Feminist Politics, Patriarchy, Masculinity, Discrimination, Gyno centrism, Dichotomy, Third Gender, Masculinity, Queer Studies etc.	
Any Two Essays • <i>What is patriarchy?</i> / <i>Understanding Gender</i> - Kamala Bhasin • <i>'Towards Feminist Politics'</i> - Elaine Showalter	
UNIT-II REPRESENTATIVE WRITERS	15hrs
Any Four Short Stories of Representative Writers • 'Three Thousand Stitches' – Sudha Murthy • 'Stone Women' – Shashi Deshpande • 'Gajar Halwa' – Geetha Hariharan • 'The Bonsai Life' - Abburi Chayadevi, Tr.Alladi Uma and M.Shridhar	

UNIT-III REPRESENTATIVE TEXTS	15hrs
Text: <i>Nine Indian Women Poets</i>, Ed. Eunice De Souza 1. "Tribute to Papa" –Mamta Kalia 2. "The Peacock"- Sujata Bhatt 3. "Request"- Tara Patel 4. "Purdah I"- Imtiaz Dharker Film as Text: Gulabi Talkies - Vaidehi	

Teaching material

Note: Teachers could explore the web/online resources to access the various concepts and illustrative examples

Books Recommended and Suggested Reading

Butler, Judith. *Gender Trouble: Feminism and the Subversion of Identity*.
Routledge, 1990. Connel, R. W. *Masculinities*. University of California Press,
1995.

Teaching material

Note: Teachers could explore the web/online resources to access the various concepts and illustrative examples

Books recommended and Suggested Reading

RANI CHANNAMMA UNIVERSITY, BELAGAVI

Detailed Syllabus for BA

(With effect from 2018-19 onwards)

Semester – VI: Optional English Paper II

Study of Classics and Modern Literary Theories

Teaching Hours: 5 Hours per week



Section – A: Classics - 50 Marks

1. Julius Caesar – William Shakespeare
2. Unto this Last – John Ruskin (The Roots of Honour and The Vains of Wealth)

Section – B: Literary Theories - 10 Marks

1. Eco-Criticism ✓
2. Feminist Theories ✓
3. Reader's Response Theory ✓
4. New Historicism ✓
5. Resistance Theory

Section – C: Introduction to Literary Theories - 20 Marks

1. Marxist Theory ✓
2. Post Colonialism
3. Structuralism ✓
4. Post Structuralism ✓
5. Deconstruction
6. Modernism ✓
7. Post Modernism ✓
8. Intertextuality
9. Psycho-analysis ✓
10. Orientalism

Suggested Readings

T. S. Eliot- What is classic (from On Poets and Poetry)

A. C. Bradley- 'Sublime' from Oxford Lectures on Poetry.

Jeremy Hawthorn A Glossary of Contemporary Literary Theory, London: Hodder Publication, 4th Ed. 2000.

Peter Barry. Introduction to Literary Theory

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RANI CHANNAMMA UNIVERSITY, BELAGAVI
GROUP -1 (LANGUAGES)

Detailed Syllabus for BA / BSW / BA in CCJ
(With effect from 2017-18 onwards)

Semester – III: Basic English
Teaching Hours: 5 Hours per week



Text: Biographical Sketches

1. Vinoba - Hallam Tennyson
2. Charles Darwin - Rajendra Kumar
3. St. Joan - R.N. Roy
4. The Friend of Slaves - Dorothy King
5. Leo Tolstoy - Ronald Seth

Grammar and Composition

- 1) Confusing Words
- 2) One Word Substitutes
- 3) Interpretations of Notices
- 4) Welcome address and Vote of thanks
- 5) CV writing

Curriculum vitae writing (A summary of your Academic & work history)

Pattern of Question Paper

(80 Marks paper of three hours and 20 Marks for I.A)

- | | |
|--|-----------|
| 1) Objective type questions on Biographical Sketches | 10X1=10 |
| 2) Comprehension questions (Answer in a sentence or two) | 5X2=10 |
| 3) Essay type question on Portraits (One out of two) | 10 |
| 4) Essay type question on Portraits (One out of two) | 10 |
| 5) Short notes on Portraits (Two out of Four) | 2X5= 10 |
| 6) Confusing Words (Sentences to be framed on Five pairs of words) | 10 |
| 7) A) One Word Substitutes | 5X1= 05 |
| B) Interpretations of Notices (any 2 out of 3) | 1X5= 05 |
| 8) A) Welcome address and Vote of thanks | 1X5= 05 |
| B) CV writing | 1X5= 05 |
| | 80 |

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RANI CHANNAMMA UNIVERSITY, BELAGAVI
GROUP -1 (LANGUAGES)
Detailed Syllabus for B. Sc. / B.Sc. Comp-Sc / BCA / B. Sc. in CCJ
(With effect from 2017-18 onwards)
Semester III: Basic English
Teaching Hours: 5 per Week

Text: Eco English: Learning English through Environmental Issues an Integrated, Interactive Anthology

Edited By N. Krishnaswamy, Lalitha Krishnaswamy, and Dr. B.S. Valke.

Bloomsbury Publication

(Units – 2, 3, 7, 8, 10, 13, 14, 15)

Grammar and Composition

Confusing Words (Sentences to be framed on Five pairs of words)

One Word Substitutes

Interpretations of Notices

Translation of a Paragraph (A Paragraph of one hundred words from

Kannada text into English or vice versa)

Paraphrasing of a Prose of 100 words or a Sonnet



Pattern of Question Paper

(80 Marks per paper of three hours and 20 Marks for I.A)

- | | |
|--|---------|
| 1) Objective type questions | 10x1=10 |
| 2) Comprehension Questions (Answer in a sentence or Two) | 5X2=10 |
| 3) Essay type question (one out of two) | 1X10=10 |
| 4) Essay type question (one out of two) | 1X10=10 |
| 5) Short Notes (two out of four) | 2X5=10 |
| 6) Confusing Words (Sentences to be framed on Five pairs of words) | 10 |
| 7) A) One Word Substitutes | 5X1=05 |
| B) Interpretations of Notices | 5X1=05 |
| 8) Translation (100 words) | 1X10=10 |

Or

Paraphrasing of a Prose of 100 words or a Sonnet

80

1) Will the World Come to an End?

2) Noah Today

3) The Happy Man Shift

Italian Folklore Retold

4) Polluting the World

5) Animal Farm

6) Rivers

7) Water

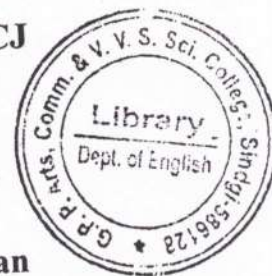
8) Global Warming and

Climate Change

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 SINDGI-586128. College Code: 5234

RANI CHANNAMMA UNIVERSITY, BELAGAVI
GROUP -1 (LANGUAGES)
Detailed Syllabus for B. Sc. / B.Sc. Comp-Sc / BCA / B. Sc. in CCJ
(With effect from 2017-18 onwards)
Semester IV: Basic English
Teaching Hours: 5 Hours per Week



Text: **Eco English: Learning English through Environmental Issues an Integrated, Interactive Anthology**

Bloomsbury Publication

Edited By N. Krishnaswamy, Lalitha Krishnaswamy, Dr. B.S. Valke

(Units – 17, 18, 19, 20, 21, 22, 23, 24)

Grammar and Composition

- A) Correction of Sentences (focus on the use of articles, prepositions, numbers, subject verb agreement, question tags, Pronouns, adjectives, adverbs, homophones, homonyms)
- B) Speeches (Direct and Indirect)
- C) Voice (Active and Passive)
- D) Application Letters for Jobs without CV
- E) Paragraph Writing (my family, kinds of books, the green house effect, Importance of sports, euthanasia, solar energy, a decision that changed my life, advantages of vegetarianism, cherishing old people, human values are timeless etc)

Pattern of Question Paper

(80 Marks paper of three hours and 20 Marks for I.A)

- | | |
|--|-----------|
| 1) Objective type questions | 10X1=10 |
| 2) Comprehension Questions (Answer in a sentence or Two) | 5X2=10 |
| 3) Essay type question (one out of two) | 1X10=10 |
| 4) Essay type question (one out of two) | 1X10=10 |
| 5) Short Notes (two out of four) | 2X5=10 |
| 6) Correction of errors | 10X1=10 |
| 7) A) Direct and Indirect Speech | 5X1=05 |
| B) Active Voice and Passive Voice | 5X1=05 |
| 8) A) Application Letters for Jobs without CV | 1X5=05 |
| B) Paragraph Writing (about 150 words) | 1X5=05 |
| | 80 |

the act of killing someone painlessly
 esp. to relieve suffering from an
 incurable illness.

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HUMAN RIGHTS**Open Elective OE-1**

Course Title: HUMAN RIGHTS	
Total Contact Hours: 45	Course Credits: 3
No. of Teaching Hours/Week: 3	Duration of ESA/Exam: 3Hours
Formative Assessment Marks: 30	Summative Assessment Marks: 70+30=100

Course Objective:

This course aims to introduce the students to basic concepts and practices of Human Rights in the global and local domain. This course also exposes them to certain recent issues confronting the Human Rights debates.

Learning Outcomes:

After completing this course students will be able to-

- Explain the basic concept of Human Rights and its various formulations.
- Have necessary knowledge and skills for analyzing, interpreting, and applying the Human Rights standards and sensitize them to the issues.
- Develop ability to critically analyse Human Rights situations around them.

Unit	Contents of Course- OE-1	45 Hours
Unit-I	Chapter-1 Meaning, nature, scope and importance of Human Rights Chapter-2 The Human Rights of First generation (Civil and Political Rights), Second generation (Economic, Social and Cultural Rights), Third generation (Collective Rights) Chapter-3 Universal Declaration of Human Rights	15 Hours
Unit-II	Chapter-4 Human Rights, Fundamental Rights and Fundamental Duties in India Chapter- 5 National Human Rights Commission (NHRC) -	15 Hours



	Composition and its function Chapter-6 Karnataka State Human Rights Commissions (KSHRCs) – Composition and its functions	
Unit- III	Chapter -7 National Commission and Committees for SCs/STs, Minorities' Commission, Women' Commission Chapter-8 Major issues, concerns and challenges to Human Rights	15 Hours

Exercise:

- Group Discussion on Human Rights and its types (comparison of Western and Eastern concept of Human Rights).
- Students can be asked to do collage making and present the same.
- Find out the different types of complaints received by NHRC and bring out the end results on any one of such case.
- In order to make it more participatory learning, the students are required to visit the website of NHRC (www.nhrc.nic.in), wherein at the left-hand side, a link is provided to the 'instructions. After going through the guidelines issued by NHRC's, briefly explain the guidelines on – Custodial death/rape, Encounter death, and Guidelines on arrest.


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RANI CHANNAMMA UNIVERSITY BELAGAVI

THE COURSE STRUCTURE & SYLLABUS OF UNDER GRADUATE
COMPULSORY PAPER

INDIAN CONSTITUTION

1ST Semesters

w.e.f.

Academic Year 2020-21 and Onwards
Under

CHOICE BASED CREDIT SYSTEM (CBCS)


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Part 3: AECC - Ability Enhancement Compulsory Course

Sem	Course Code	Title of the Paper	Teaching Hours/Week	Credits	Marks		Total	Duration of Exam
					Sem End Exam	IA		
I	AECC	INDIAN CONSTITUTION	2	2	40	10	50	2 Hrs

The constitution of India aims to imbue students with the constitutional making process and its formulations. Further, it is done with the objective to acquaint / embolden students to have the basic understanding of the constitution of India.

Unit – 1 Constitution – Structure and Principles

1. Meaning and importance of Constitution.
2. Making of Indian Constitution – Sources
3. Salient features of Indian Constitution

Unit – 2 Fundamental Rights and Directive Principles

1. Fundamental Rights.
2. Fundamental Duties.
3. Directive Principles.

Unit – 3 Government of Union

1. President of India – Election and Powers.
2. Prime Minister and Council of Ministers.
3. Lok Sabha – Composition and Powers.
4. Rajya Sabha – Composition and Powers.

Reference :

- 1) Durga Das Basu, Introduction to the Constitution of India, Gurgaon; LexisNexis, 2018 (23rd edn.)
- 2) M. V. Pylee, India's Constitution, New Delhi; S. Chand Pub., 2017 (16th edn.)
- 3) J.N. Pandey, The Constitutional Law of India, Allahabad; Central Law Agency, 2018 (55th edn.)
- 4) Constitution of India (Full Text), India. Gov. in., National Portal of India, https://www.india.gov.in/sites/upload_files/npi/files/coi_part_full.pdf
- 5) Durga Das Basu, Bharatada Samvidhana Parichaya, Gurgaon; Lexis Nexis Butterworths Wadhawa, 2015.
- 6) Kb Merunandan, Bharatada Samvidhana Ondu Parichaya, Bangalore, Meragu Publications, 2015.
- 7) ಡಾ. ಎಂ.ಎಸ್. ಪಾಟೀಲ ಪ್ರಾಚಾರ್ಯರು ಎಸ್.ಕೆ.ಕಲಾ, ವಾಣಿಜ್ಯ ಹಾಗೂ ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ, ತಾಳಿಕೋಟೆ ಭಾರತದ ಸಂವಿಧಾನ ಪ್ರತಿಭಾ ಪ್ರಕಾಶನ ತಾಳಿಕೋಟೆ.
- 8) ಪ್ರೊ. ಎಚ್. ಎಂ. ರಾಜಶೇಖರ ಭಾರತ ಸರ್ಕಾರ ಮತ್ತು ರಾಜಕೀಯ.
- 9) ಎಸ್. ಪಿ. ಡಂಗಿ ಭಾರತ ಸಂವಿಧಾನ ಪರಮಲಕ್ಷ್ಮಿ ಪ್ರಕಾಶನ.

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Question paper pattern:

There will be two sections in a question paper of theory course for the semester end examination.

(Part I and Part II).

Part I - There shall be 6 questions carrying 2marks each. Students should answer any 4 questions out of 6 questions.

Part II - There shall be 4 questions (two from each unit with sub questions a, b, & c) carrying 16 marks each. Students should answer any 2 questions out of 4 questions.

Part I (4x 2) : 08Marks

Part II (2 X 16) : 32 Marks

Distribution of Marks:

Theory Courses: a) Examination	:	40 Marks
b) Internal Assessment	:	10 Marks
c) Total	:	50 Marks

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RANI CHANNAMMA UNIVERSITY, BELAGAVI

WEL-COME

**TO THE COURSE STRUCTRE AND SYLLABUS OF UNDERGRADUATE
PROGRAMMES – B.A**

II Semester

w.e.f.

Academic Year 2016-17 and Onwards

Name of the subject: **Environmental studies and Human rights**

Contact Hours : 52

Contact Hours per Week : 04

Total marks for examination : 80

Internal Assessments : 20

B.A./B.Sc./BCA/BSW-II Semester

Compulsory subject

With effect from the Academic Year 2018-19 onwards

Teaching Hours: 04 Hours per Week

Total Hours: 52

10 Hours

UNIT-I

1) The Multidisciplinary Nature of Environmental Studies

Definition, scope and importance

Need for public awareness.

2) Natural Resources

Renewable and Non-renewable Resources:

Natural resources and associated problems-Forest resources: r resources, Mineral resources, Food resources, Energy resources.

3) Ecosystems: Concept-Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem.

4) Ecosystems: Introduction, types, characteristic features, structure and function.

10 Hours

UNIT-II

1) Biodiversity and Its Conservation

Introduction, definition: genetic, species and ecosystem diversity.

2) Biodiversity at global, National and local levels-Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, Conservation of biodiversity.

Environmental Pollution: Definition, Causes, effects and control measures.

3) Waste Management-Solid waste management: Causes, effects and control measures of urban and industrial wastes.

4) Social Issues and the Environment-Urban problems related to energy, Water conservation, rain water harvesting, watershed management, Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.

12 Hours

UNIT-III

1) Human Population and the Environment-Population growth, variation among nations, Population explosion – Family Welfare Programme.

2) Field Work

a) Visit to a local area to document environmental assets – river/forest/grassland/hill/mountain.

b) Study of common plants, insects, birds.

c) Study of simple ecosystems – pond, river, hill slopes, etc.

(Field work equal to 2 lecture hours)

Concept and Development of Human Rights

- 3) Meaning Scope and Development of Human Rights
- 4) Universal Declaration of Human Rights. UDHR 1948, International Covenant on Civil and Political rights. ICCPR 1996 & International Covenant on Economic social and Cultural Rights.(ICESCR) 1966.

10 Hours

Unit -IV Human Rights in India

- 1) Protection of Human Rights Act, 1993
- 2) Third Generation Human Rights (Group Rights) and Fourth Generation Human Rights. (Right to Development and Environmental Rights.)
- 3) Convention on the Elimination of All forms of Discrimination against Women.
- 4) Convention on the Rights of the Child

10 Hours

Unit- V Enforcement of Human Rights

- 1) National Human Rights Commission,
- 2) State Human Rights Commission.
- 3) Judicial Activism and Human Rights.
- 4) Human Rights Courts in India.

References for Environmental Studies

01. A.K. De, Environmental Chemistry, Wiley International.
02. B.K. Sharma, Environmental Chemistry, Goel Publishing house.
03. E.D. Wagner, Environmental Management, Saunders Co., USA.
04. T.G. Miller, Environmental Science, Wordsworth publishing Co.

References for Human Rights

1. K.P. Saksena "Human Rights" 1996 New Delhi.
2. Dr. S. Mangalmurthya "Human Rights " Chetan Book House Mysore 2004.
3. Krishnamurthy S. "Human Rights and Police Administration" B. R. Publishing Corporation, Bangalore.
4. B.P. Singh "Human Rights in India" Deep & Deep Publication New Delhi.
5. D.D. Basu, "Human Rights in Constitutional Law" prentice hall.
6. S.O. Agarwal, "Human Rights" Central law Agency, Allahabad.
7. V.A. Anand "Human Rights" Allahabad Law Agency, Faridabad.

Scheme of Examination

Semester	Title of the paper	Theory Hours/ week	Theory Marks	I.A. Marks	Exam Hours	Total Marks
II Semester	Environmental Studies and Human Rights(EVS & HRS)	04	80	20	1.5 Hours	100

Note: The final examination is on Multiple Choice Questions(MCQ) Based. Each unit shall carry equal weightage during the preparation of the question paper.

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DEVELOPMENT OF PERSONALITY AND COMMUNICATION SKILL

Contact Hours : 52
Marks : Main Exam : 80

Contact/ Weekly Hours : 4
Internal Assessments : 20

Module 1 : Personality – The Introduction

(11 Hrs)

Personality meaning, dimensions/ determinants physical, Intellectual, emotional, linguistic cultural, Traits of Personality, importance of personality development, Personality development as a process.

Module 2 : Personality Development

(11 Hrs)

Grooming the self, Dress code for Men and Women, Do's and Don'ts, Social etiquettes and Manners, Self-confidence – Meaning and building techniques, Willpower Increasing the Willpower for self-improvement.

Module 3 : Self Analysis

(10 Hrs)

SWOT Analysis, Who am I, Attributes, Importance of Self Confidence, Creativity out of box thinking, Lateral Thinking, Johari Window.

GOAL SETTING – Short Term, Long Term, Life Time Goals, (Personalized and organizational) Time Management Value of time, Diagnosing Time Management, Weekly Planner To do list, Prioritizing work.

Module 4 : Communication and its importance

(10 Hrs)

Process of Communication, written and oral communication, process of listing body language or non verbal communication, the art of public speaking.

Module 5 : Leadership as a process

(10 Hrs)

Working in a team, management of conflict, interpersonal and interpersonal intergroup, Profiles, of great personalities, Career planning and role of career planning and role of career planning in personality development, How to face personal interview and group discussion.

References:

1. Organisational Behaviour : By S.S. Khanaka
2. Organisational Behaviour : By Stephen Robbing
3. Organisational Behaviour : By Ashwatappa
4. Cloninger, Susan C, (2000) Theories of personality, prentice Hall London.

5. Eriksen Karin (1979) Communion skills for human services, Prentice-Hall
6. Hurlack,, Elizabeth B (?) personality Development
7. Johnson Roy Ivan (1956) Communication : Handling Idea Effectively, McGraw Hill, New York.
8. Kagan Jerome (1969), Personality Development, Harcourt Brace, New York.
9. Kundu C.L (1989) personality Development, Sterling Bangalore.

Scheme of Instruction and Examination

Sem	Title of the Paper	Theory Hours	Theory Marks	I.A. Marks	Exam Hrs	Total Marks
III	Development of Personality and Communication	4 Hrs	80	20	1.5	100

Note : The Final Examination shall be in Multiple Choice Question (MCQ)

Equal weightage shall be given to all the modules when preparing MCQ's


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COURSE - SEC-4.8: CORPORATE COMMUNICATION

Weekly Teaching Hours: 2
Credits: 2

Examination Duration: 2 Hours
Maximum Marks: 50

Objective: To create awareness among students about corporate Communication and drafting skills

Units	Topics	No. of Periods
I	PERSONAL AND SECRETARIAL CORRESPONDENCE: Letters calling candidates for written test – Drafting interview letters – Offer of appointment – Order of appointment – Show cause notices – Letter of dismissal and discharge. Correspondence with shareholders and debenture holders relating to dividends and interest – Transfer and transmission of shares.	10
II	INTERNAL COMMUNICATION AND PUBLIC RELATIONS: Internal memos – Office circulars – Office orders – Communication with regional/ branch offices. Public Relations: Meaning, importance and elements - Corporate brand building – Image management – Event management and Media Management.	10
III	MODERN COMMUNICATION DEVICES: Internet – Teleconferencing – Mobile phones – Computers – Laptops – Close circuit TVs – Desktop publishing – Electronic mail (e-mail) – SMS Messages – Audio conferencing – Video conferencing – Printing – Electronic storage devices.	10

Reference Books:

1. R. O. Sharma and Krishna Mohan: Business Communication and Report writing, TMH
2. Raman S and Swami R: Business Communication – A practical Approach, Professional publications Madras.
3. Ramesh and Pattanshetti: Effective Business English and Correspondence.
4. Balasubramanyam: Business Communication Vikas Publishing House, New Delhi
5. Randall E. Mogors: Business Communication - Harper and Row, New York
6. Kaul: Effective Business Communication Prentice Hall, New Delhi
7. Patri V.R.: Essentials of Communication - Greenspan Publications, New Delhi
8. Taylor and Shirley: Model Business Letters -, Pearson Education Asia, New Delhi
9. S.O.Halasagi and Dr. S.O. Halasagi: Business Communication - Onkar Prakashan, Kagwad.


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COURSE - SEC-5.7: COMMUNITY SERVICES

Weekly Teaching Hours: 2

Examination Duration: 2 Hours

Credits: 1

Maximum Marks: 50

Objective: To enable the students' to learn and develop the skills by involving in the community services.

After the completion of the IV Semester, students should be assigned COMMUNITY SERVICE and it shall be monitored by Mentors. Allocation of the students shall be made to each Mentor. In addition to Commerce faculty, faculty from Languages including English, Additional Subjects, Librarian, and Physical Education Director shall also be appointed as Mentors. The Community Service may be carried out in any type of Non-profit Organisations such as Panchayat Raj Institutions, Public Hospitals, Old Age Homes, Orphanage Houses, Sports Clubs, Women's organisations, Neighbourhood organisations, Religious and Educational organisations, Red Cross, Lions Club, Rotary Clubs, Youth Service Associations, or in any other social service organisation. Minimum of 10 days field service must be ensured. The Report on Community Service shall be submitted 10 days before the commencement of Vth Semester examinations. The Report shall consist of Organisation's Profile, Nature of Service and Experience of the Student, along with Certificate from the Organisation in about 25 pages. The related Marks & Credit will be awarded based on the report.


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1.5 – A. BUSINESS ENVIRONMENT

Max Marks: 80 (End Sem.) + 20 (IA) = 100

Lecture per Week: 4 hours
Exam Duration: 3 Hours

OBJECTIVES:

- 1) To identify various factors influencing business.
- 2) To rearrange role of environmental factors in functioning the business.
- 3) To study environmental factors to become future business managers.

Unit	Topics	No of Periods
I	Concept and Nature of Business and its –Environment: Characteristics of modern business, micro and macro environment, impact of business environment on business decisions.	10
II	Economic Environment: Concept and Nature of economic environment, Basic Economic Systems, Industry -small scale industries, New Economic Policy, Arguments for and against LPG.	10
III	Political and Legal Environment: Concept and nature of political and legal environment, Government's intervention in business, Advantages and disadvantages of intervention in Business	10
IV	Socio-cultural Environment: Concept and nature of Socio-cultural Environment, impact of Socio-cultural Environment on business, Culture and globalization, Social Responsibility, Arguments for and against social responsibility and CSR in brief.	10
V	Technological Environment: Concept and nature of technological environment Technological impact on society, management of technology, New Technological policy	10


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COURSE - DSC-3.7: PRACTICALS ON SKILL DEVELOPMENT

Weekly Teaching Hours: 2
Credits: 1

Examination Duration: 2 Hours
Maximum Marks: 50

Objective: To enable the students to learn and develop the overall skills through visiting entities/organizations with practical exposure.

Units	Topics
I	PRACTICALS ON CORPORATE ACCOUNTING-I: • Visit any company/stock broking agency and collect share application form and fill the contents. • List out the SEBI guidelines for underwriting of shares and debentures. • Collect the financial statements of a company, prepared as per Schedule-III of Companies Act 2013, and analyze. • Collect the balance sheet of a company and calculate value of share using intrinsic value method • Calculate the maximum managerial remuneration payable with imaginary figures.
II	PRACTICALS ON ENTREPRENEURSHIP DEVELOPMENT: • Visit to small-scale industry and prepare a SWOC analysis report. • Draft the success stories of business entrepreneurs in your region. • List out at least ten successful entrepreneurs in Karnataka. • List out the problems of rural entrepreneurs • List out the government support schemes for the entrepreneurship.
III	PRACTICALS ON INNOVATIVE BANKING: • Collect and fill the application form for opening a Bank Account. • Draw a specimen of Cheque with MICR technology • Draw the specimen of Debit or Credit Card • Collect and fill the form of RTGS/NEFT • Study of any two e-wallet organizations
IV	PRACTICALS ON QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS-I: • List out the quantitative techniques used for decision making. • Collect the marks scored by 50 students in a subject and calculate mean/median/mode • Collect age statistics of 10 newly married couples and calculate correlation. • Collect the sales/production data for five years and forecast sales/production for the future. • Narrate the process of testing and quality control in textile manufacturing.


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Second Semester B.Sc. (Botany)

Paper Code: BOTDSCT2.1
Teaching Hours: 4 Hrs / Week
Teaching hours: 60

Paper Title: Plant Ecology and Diversity of angiosperms
Marks: Th-80+IA-20
Credits: 3

Unit1:

- **Atmosphere:** Atmosphere gaseous composition and Atmospheric layers.
- **Ecological factors:** Soil, weathering, composition, pedogenesis and soil profile. Water: States of water in the environment, precipitation types. Light and temperature: Variation Optimal and limiting factors; Shelford law of tolerance. Adaptation of hydrophytes and xerophytes.

15 hours

Unit 2:

- **Plant Succession:** Characters; Ecotone and edge effect; Succession; Hydrosere and Xerosere.
- **Ecosystem:** Structure; energy flow trophic organisation; Food chains and food webs, Ecological pyramids production and productivity; Biogeochemical cycles; carbon, nitrogen and Phosphorous cycles.
- **Phytogeography:** Principle, biogeographical zones; Endemism.

15 hours

Unit3

- **Morphology of Angiosperms:** Root, Stem, leaf and its modifications: inflorescence, flower and fruit.

15 hours

Unit4:

- **Plant Taxonomy:** Introduction, Identification Functions of Herbarium, important herbaria and botanical gardens of the world and India; Documentation: Flora, Keys: single access and multi-access
- **Classification**
Types of classification-artificial, natural and phylogenetic. Bentham and Hooker (upto series), Engler and Prantl (upto series).
- **Taxonomic hierarchy**
Ranks, categories and taxonomic groups, Taxonomic evidences from palynology, cytology, phytochemistry and molecular data.
- **Botanical nomenclature**
Principles and rules (ICN); ranks and names; binominal system, typification, author citation, valid publication, rejection of names, principle of priority and its limitations.

15 hours


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SINDEP-500126: College Code: 5234

DEPARTMENT OF PHYSICS

B.Sc. I Sem OEC 2021-22

OPEN-ELECTIVE SYLLABUS:

Year I Course Code: 21BSC101PHY1

Course Title: **Energy Sources** Credits 03 Sem. 1 Hours 40

Formative Assessment Marks: 40 Summative Assessment Marks: 60 Duration of ESA: 02 hrs.

Unit No. Course Content Hours

Unit I Introduction: Energy concept-sources in general, its significance & necessity. Classification of energy sources: Primary and Secondary energy, Commercial and Non-commercial energy, Renewable and Non-renewable energy, Conventional and Non-conventional energy, Based on Origin-Examples and limitations. Importance of Non-commercial energy resources.05 Renewable energy sources: Need of renewable energy, non-conventional energy sources. An overview of developments in Offshore Wind Energy, Tidal Energy, Wave energy systems, Ocean Thermal Energy Conversion, solar energy, biomass, biochemical conversion, biogas generation, geothermal energy tidal energy, Hydroelectricity.05

Unit II Conventional energy sources: Fossil fuels & Nuclear energy- production & extraction, usage rate and limitations. Impact on environment and their issues& challenges. Overview of Indian & world energy scenario with latest statistics- consumption & necessity. Need of eco-friendly & green energy & their related technology.10

Unit III Solar energy: Solar Energy-Key features, its importance, Merits & demerits of solar energy, Applications of solar energy. Solar water heater, flat plate collector, solar distillation, solar cooker, solar green houses, solar cell - brief discussion of each. Need and characteristics of photovoltaic (PV) systems, PV models and equivalent circuits, and sun tracking systems.10

Unit IV Fundamentals of Wind energy, Wind Turbines and different electrical machines in wind turbines, Power electronic interfaces, and grid interconnection topologies. Ocean Energy Potential against Wind and Solar, Wave Characteristics and Statistics, Wave Energy Devices. Tide characteristics and Statistics, Tide Energy Technologies, Ocean Thermal Energy.08 Geothermal and hydro energy: Geothermal Resources, Geothermal 02 Technologies. Hydropower resources, hydropower technologies, environmental impact of hydro power sources.

Activity

1. Demonstration of on Solar energy, wind energy, etc, using training modules at Labs.
2. Conversion of vibration to voltage using piezoelectric materials.
3. Conversion of thermal energy into voltage using thermoelectric (using thermocouples or heat sensors) modules.
4. Project report on Solar energy scenario in India
5. Project report on Hydro energy scenario in India
6. Project report on wind energy scenario in India
7. Field trip to nearby Hydroelectric stations.
8. Field trip to wind energy stations like Chitradurga, Hospet, Gadag, etc.
9. Field trip to solar energy parks like Yeramaras near Raichur.
10. Videos on solar energy, hydro energy and wind energy.


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III- Semester B.Sc. (Physics) Skill Enhancement Course: 2021-22

Paper Code: PHYSECT3.2

Paper Title: Weather Forecasting

Teaching Hours: 2Hrs / Week **Marks:** Th-40+IA-10 **TOTAL HOURS :30 Credits :2** *The aim of this course is not just to impart theoretical knowledge to the students but to enable them to develop an awareness and understanding regarding the causes and effects of different weather phenomenon and basic forecasting techniques*

Unit I Introduction to atmosphere: Elementary idea of atmosphere: physical structure and composition; compositional layering of the atmosphere; variation of pressure and temperature with height; air temperature; requirements to measure air temperature; temperature sensors: types; atmospheric pressure: its measurement; cyclones and anticyclones: its characteristics. **Measuring the weather:** Wind; forces acting to produce wind; wind speed direction: units, its direction; measuring wind speed and direction; humidity, clouds and rainfall, radiation: absorption, emission and scattering in atmosphere; radiation laws. **Weather systems:** Global wind systems; air masses and fronts: classifications; jet streams; local thunderstorms; tropical cyclones: classification; tornadoes; hurricanes. **15 Hours**

Unit II Climate and Climate Change: Climate: its classification; causes of climate change; global warming and its outcomes; air pollution; aerosols, ozone depletion, acid rain, environmental issues related to climate. **Basics of weather forecasting:** Weather forecasting: analysis and its historical background; need of measuring weather; types of weather forecasting; weather forecasting methods; criteria of choosing weather station; basics of choosing site and exposure; satellites observations in weather forecasting; weather maps; uncertainty and predictability; probability forecasts. **15 Hours**

Unit III Demonstrations and Experiments: 1. Study of synoptic charts & weather reports, working principle of weather station. 2. Processing and analysis of weather data: (a) To calculate the sunniest time of the year. (b) To study the variation of rainfall amount and intensity by wind direction. (c) To observe the sunniest/driest day of the week. (d) To examine the maximum and minimum temperature throughout the year. (e) To evaluate the relative humidity of the day. (f) To examine the rainfall amount month wise. 3. Exercises in chart reading: Plotting of constant pressure charts, surfaces charts, upper wind charts and its analysis. 4. Formats and elements in different types of weather forecasts/ warning (both aviation and non aviation)


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✓
Syllabus with effect from 2019 – 20
B.Sc Fifth semester [Paper I]

Ecology, Evolution, Paleontology, Zoogeography, Wildlife conservation

ECOLOGY (27 Hours)

Introduction: Earth as living planet, sub divisions of ecology, scope of ecology, biosphere

1 Hr

Ecosystem: Component of the ecosystem (abiotic and biotic factors), Significance of biotic and abiotic components, food chain, food web
Effect of Light and Temperature on animals and plants

5 Hrs

Animal interactions: Symbiosis (mutualism and commensalism), Parasitism, Predation, and Competition with examples

2 Hrs

Habitats: Freshwater habitat - Lotic and Lentic systems

Marine habitat - Zonation of Sea, Marine Biota, Estuarine ecology, Mangroves.

Terrestrial habitat: A brief account of Biomes

6 Hrs

Adaptations: Ecological adaptations of freshwater, marine and terrestrial animals

Biogeochemical cycles: Principles and concepts of water, nitrogen, carbon and oxygen cycles

4 Hrs

Community ecology: Community structure, ecological niches, edge effect, Stratification and ecotone

2 Hrs

Population ecology: Density, natality, mortality, age distribution, population growth, types and curves

2 Hrs

The geological time scale & fossils: Origin of Earth, Origin of life
Theories with reference to origin of life. Definition and kinds of fossils.
how fossils are formed, methods of preservation.
Connecting links and living fossils. The importance of fossils

5 Hrs

EVOLUTION

Theories of Organic Evolution: Lamarckism, Darwinism, Mutation Theory and the Modern Synthesis theory (population gene pool, gene frequency. Variations, gene mutation, chromosomal mutation. Isolation and recombination. Genetic drift, Hardy Weinberg equilibrium
Evolution of Man and Horse and

5 Hrs


Coordinator IQAC
G. P. PORWAL ARTS, COMM &
V.V.SALIMATH Sc. College
SINDGI-556128


HOD
Dept. of Zoology,
Porwal Arts, Commerce & Science
College, SINDGI, Dist: Vijayapur


Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 52

PALEONTOLOGY: Mesozoic reptiles ✓

3 Hrs

ZOOGEOGRAPHY: Zoogeographical realms of world with emphasis on climatic conditions and biodiversity of the area. A brief account of Wallace's line

3 Hrs

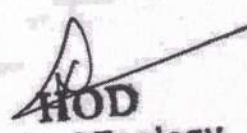
WILDLIFE CONSERVATION: Wildlife conservation methods, Wildlife in India, Causes for the depletion of wildlife, Brief account of: IUCN, WWF, Bombay Natural History Society, Indian Board for Wild Life, Red Data Book. Wild Life Act 1972 and its amendments in India, CITES. Project Tiger and Biosphere Reserves.

12 Hrs

**Question paper pattern for theory examination
B.Sc Fifth Semester (Paper – I) Total 80 Marks**

Q. I	2 marks	12 questions to be given	Solve any 10	20 marks
Q. II	5 marks	6 questions to be given	Solve any 5	30 marks
Q. III	10 marks	2 questions to be given	Solve any 1	10 marks
Q. IV	10 marks	2 questions to be given	Solve any 1	10 marks
Q. V	10 marks	2 questions to be given	Solve any 1	10 marks


Coordinator IQAC
G. P. PORWAL ARTS, COM. &
V. V. SALIMATH Sc. College,
SINDGI-586128


HOD
Dept. of Zoology,
Porwal Arts, Commerce & Science
College, SINDGI. Dist: Vijayapur


Chairperson IOAC
PRINCIPAL,


Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 5234

Practical

Paper Code: BOTDSCTP1.1 **Paper Title:** Biodiversity (Microbes, Algae, Fungi and Archegoniate)
Teaching Hours: 3 Hrs / Week **Marks:** Th-40+IA-10 **Credits:** 1

1. EMs/Models of viruses – T-Phage and TMV, Line drawing/Photograph of Lytic and Lysogenic Cycle.
2. Types of Bacteria from temporary/permanent slides/photographs; EM bacterium; Binary Fission; Conjugation; Structure of root nodule.
3. Gram staining
4. Study of vegetative and reproductive structures of *Volvox*, *Nostoc*, (electron micrographs), *Oedogonium*, *Vaucheria*, *Ectocarpus* and *Batrachospermum* through temporary preparations and permanent slides.
5. *Rhizopus* and *Penicillium*: Asexual stage from temporary mounts and sexual structures through permanent slides.
6. *Cercospora Specimens*/photographs and tease mounts.
7. *Puccinia*: Herbarium specimens of Black Stem Rust of Wheat and infected Barberry leaves; section/tease mounts of spores on Wheat and permanent slides of both the hosts.
8. *Agaricus*: Specimens of button stage and full grown mushroom; Sectioning of gills of *Agaricus*.
9. Lichens: Study of growth forms of lichens (crustose, foliose and fruticose)
10. Mycorrhiza: ectomycorrhiza and endomycorrhiza (Photographs)
11. *Marchantia*-morphology of thallus, w.m. rhizoids and scales, v.s. thallus through gemma cup, w.m. gemmae (all temporary slides), v.s. antheridiophore, archegoniophore, L.S. sporophyte (all permanent slides).
12. *Funaria*- morphology, w.m. leaf, rhizoids, operculum, peristome, annulus, spores (temporary slides); permanent slides showing antheridial and archegonial heads, L. S. capsule and protonema.
13. *Selaginella*- morphology, w.m. leaf with ligule, T.S. stem, w.m. strobilus, w.m. microsporophyll and megasporophyll (temporary slides), L.S. strobilus (permanent slide).
14. *Equisetum*- morphology, T.S. internode, L.S. strobilus, T.S. strobilus, w.m. sporangiophore, w.m. spores (wet and dry) (temporary slides); T.s rhizome (permanent slide).
15. *Pteris*- morphology, T.S. rachis, v.s. sporophyll, w.m. sporangium, w.m. spores (temporary slides), T.S. rhizome, w.m. prothallus with sex organs and young sporophyte (permanent slide).
16. *Cycas*-morphology (coralloid roots, bulbil, leaf), T.S. coralloid root, T.S. rachis, v.s. leaflet, v.s. microsporophyll, w.m. spores (temporary slides), L.S. ovule, T.S. root (permanent slide).
17. *Pinus*- morphology (long and dwarf shoots, w.m. dwarf shoot, male and female), w.m. dwarf shoot, T.S. needle, T.S. stem, L.S./T.S. male cone, w.m. microsporophyll, w.m. microspores (temporary slides), L S. female cone, T. L.S. & R. L.S. stem (permanent slide).
18. Study tour two days compulsory.

Paper Code: ZOODSCP 1.1
Teaching Hours: 3 H / Week
Total hours: 45

Paper Title: Practicals-1
Marks: Th-40+IA-10
Credits :1

ZOODSC P11-PRACTICAL-I

1. Study of the following specimens making use of permanent slides / specimens:

- i. Study of unicellular and cellular grade organized animals: *Amoeba*, *Euglena*, *Paramecium* and *Sycon*
 - ii. Study of tissue grade organized animals: *Obelia*, *Physalia*, *Aurelia*, *Metridium*, Study of flat worms: *Planaria*, *Taenia solium*
 - iii. Study of round worms: Male and female *Ascaris lumbricoides*
 - iv. Study of segmented Animals: *Nereis*, *Pheretima*, *Hirudinaria*,
 - v. Study of animal forms with jointed appendages: *Palaemon*, *Cancer*, *Limulus*, *Apis*,
 - vi. Study of soft bodied animals: *Chiton*, *Dentalium*, *Pila*, *Unio*, *Loligo*, *Sepia*,
 - vii. Study of spiny skinned animals: *Pentaceros*, *Ophiura*, *Echinus*, *Cucumaria* and *Antedon*
 - viii. Study of Protochordates: *Balanoglossus*, *Herdmania*, *Branchiostoma*
 - ix. Study of Fishes: *Torpedo*, *Labeo*, *Exocoetus*, *Anguilla*
 - x. Study of Amphibians: *Ichthyophis*, *Salamandra*, *Bufo*, *Hyla*
 - xi. Study of Reptiles: *Chelone*, *Chamaeleon*, *Draco*, *Vipera*, *Naja*
 - xii. Study of Birds: *Duck*, *Cuckoo*, *Wood pecker*, *Kingfisher*, *Owl*, *Peacock*
 - xiii. Study of Mammals: *Duck billed platypus*, *Manis*, *Bat*, *Loris*
2. Mounting of setae, blood glands, nephridia in Earthworm
(Collect the dead worms from vermicompost pits of farmers and preserve)
 3. Mounting of mouth parts of honeybee, cockroach, housefly, mosquitoes
 4. Mounting of brain in fowl / rat (collect dead fowl / rat heads and preserve)
 5. Study tour / field visit: Compulsory tour / visit to understand faunal diversity

SUGGESTED READINGS

1. Ruppert and Barnes, R.D. (2006): Invertebrate Zoology, VIII Edition. Holt Saunders International Edition.
2. Barnes, R.S.K., Calow, P., Olive, P.J.W., Golding, D.W. and Spicer, J.I. (2002): *The Invertebrates: A New Synthesis*, III Edition, Blackwell Science
3. Young, J. Z. (2004): *The Life of Vertebrates*. III Edition. Oxford university press.
4. Pough H (2006): *Vertebrate life*, VIII Edition, Pearson International.
5. Hall B.K. and Hallgrimsson B. (2008): *Strickberger's Evolution*. IV Edition. Jones and Bartlett Publishers Inc.
6. P. S. Dhami and J. K Dhami (2000): *Practical Zoology* S. Chand and Co, New Delhi

PROFORMA INVOICE

(Original)

 Crystal Drops # 247, 7th Cross, Divyashree Nilaya S.E. Ashram Road, R.T. Nagar Post Bangalore - 560 032 Ph: 080 23433846 / 8813312257 / 8108518723 MSME : KR03E0072562 GSTIN/UIN: 29AALFC2674Q12N State Name : Karnataka, Code : 29 Cess : 080 23433846 / 8813312257 / 8108518723 E-Mail : crystaldrops32@gmail.com www.crystaldrops.co.in		Voucher No. CD2020-21/PI-15		Dated 12-Jun-2020	
Despatch To G P Porwal Arts Commerce & V V Salimath Science College Sindagi, Bijapur Dist., Karnataka -586128 State Name : Karnataka, Code : 29		Buyer's Ref./Order No. QUOTE		Mode/Terms of Payment 30% Adv 60% on PI 10% on T&C	
Invoice to G P Porwal Arts Commerce & V V Salimath Science College Sindagi, Bijapur Dist., Karnataka -586128 State Name : Karnataka, Code : 29		Despatch through Our Vehicle		Other Reference(s) 9 Lakhs Amt Received Bal 5,11,200/-	
		Terms of Delivery Ex Godown Bangalore		Destination College Sindagi	

SI No.	Description of Goods and Services	HSN/SAC	GST Rate	Quantity	Rate	per	Disc. %	Amount
1	SUPPLY OF Bar screen (Fine)	998739	12 %	1.00 No	15,000.00	No	23.82 %	11,427.00
2	SUPPLY OF Raw sewage transfer pump (Open Well Submersible Type) 20M3/Hr)	998739	12 %	6.00 No	48,500.00	No	23.82 %	2,21,683.80
3	SUPPLY OF Filterfeed pump	998739	12 %	2.00 No	29,500.00	No	23.82 %	44,946.20
4	SUPPLY OF Air blowers with motor 100m3/hr	998739	12 %	2.00 No	1,95,000.00	No	23.82 %	2,97,102.00
5	SUPPLY OF Chlorine dosing system 0 - 6LPH	998739	12 %	1.00 No	20,500.00	No	23.82 %	15,616.90
6	SUPPLY OF Diffusers	998739	12 %	4.00 No	14,500.00	No	23.82 %	44,184.40
7	SUPPLY OF Coarse bubble grid	998739	12 %	4.00 No	2,550.00	No	23.82 %	7,770.36
8	SUPPLY OF PSF 600 mm dia X 1500 mm hos with frontal piping, valves & media	998739	12 %	1.00 No	85,500.00	No	23.82 %	65,133.90
9	SUPPLY OF ACF 600 mm dia X 1500 mm hos with frontal piping, valves, IV 500 carbon	998739	12 %	1.00 No	1,05,500.00	No	23.82 %	80,369.90
10	SUPPLY OF MS & PVC piping (from Bar screen to outlet of final treated water tank, including required valves, fittings, supports & painting	998739	12 %	1.00 No	98,500.00	No	23.82 %	75,037.30
11	SUPPLY OF Sludge wastage pump	998739	12 %	2.00 No	26,500.00	No	23.82 %	40,375.40
12	SUPPLY OF MCC Panel	998739	12 %	1.00 No	1,65,500.00	No	23.82 %	1,26,077.90
13	SUPPLY OF Bagfilter with feed pump	998739	12 %	1.00 No	1,55,500.00	No	23.82 %	1,18,459.90
14	SUPPLY OF Decant Pump with pump based automation	998739	12 %	1.00 No	2,25,500.00	No	23.82 %	1,71,785.90
								13,19,970.86
Erection, Commissioning & Installation Charges 12%								80,029.14
Output CGST@ 6%								83,999.97
Output SGST@ 6%								83,999.97
Round Up								0.06
Total				28.00 No				₹ 15,68,000.00
Amount Chargeable (in words) Indian Rupees Fifteen Lakh Sixty Eight Thousand Only								
Company's PAN : AALFC2674Q								
Company's Bank Details Bank Name : Axis Bank C/A A/c No. : 916020025336069 Branch & IFS Code : Ganganagar, Bengaluru & UTIB0003311 for Crystal Drops								
Authorised Signatory								

This is a Computer Generated Document

Principal,
G.P.Porwal Arts, Comm. &
V.V.Salimath Sc. College
& P. G. Centre, SINDAGI

Principal,
G. P. Porwal Arts, Comm. &
V. V. Salimath Sc. College,
SINDAGI-586128, College Code: 5234

FROM M/s. Crystal Drops
247, 7th Cross, Divyashree Nilaya, S.S.Ashram Road
R.T.Nagar Post, Bangalore - 560 032
GST NO : 29AALFC2574Q1ZN

TO The Principal
G.P. Porwal
Arts, Commerce & V.V> Salimath Science College
Sindagi

SUB : Revised Quote for 60 KLD SBR SYSTEM for your Project

We refer to our earlier quote and subsequent to the discussion had with you, we are pleased to submit our Revised quote for 60 KLD SBR System with Pump based automation

SL NO	Description of Items	Nos	Unit Rate Rs.	Total Prices
1	Bar screen (Fine)	1	15000	15000
2	Raw sewage transfer pump (Open Well Submersible Type) 20M3	6	48500	291000
3	Filterfeed pump	2	29500	59000
4	Air blowers with motor 100m3/hr	2	195000	390000
5	Chlorine dosing system 0 - 6LPH	1	20500	20500
6	Diffusers	4	14500	58000
7	Coarse bubble grid	4	2550	10200
8	PSF 600 mm dia X 1500 mm hos with frontal piping, valves & media	1	85500	85500
9	ACF 600 mm dia X 1500 mm hos with frontal piping, valves, IV 500 carbon	1	105500	105500
10	MS & PVC piping (from Bar screen to outlet of final treated water tanks, including required valves, fittings, supports & painting	1	98500	98500
11	Sludge wastage pump	2	26500	53000
12	MCC Panel	1	165500	165500
13	Bagfilter with feed pump	1	155500	155500
14	Decant Pump with pump based automation	1	225500	225500
	TOTAL PRICES FOR SUPPLY ABOVE SYSTEM			1,732,700.00
15	Installation & Commissioning	1		105,000.00
	Total			1,837,700.00
	Less special discount			437,700.00
	Value after discount			1,400,000.00

COMMERCIAL TERMS AND CONDITIONS

ADD: 12% GST 168000

The above quoted Prices are inclusive of 18% GST, but F.O.R Delivered to your site

GRAND TOT/ 1,568,000.00

Delivery : with in 1 months from the date of your firm order with advance payment
Installation & Commissioning Time : 30 days from the date all supplied made to site

Payment : 30% advance with order, 60% against proforma prior to despatch and balance 10% against completion of installation & commissioning

LIST OF EXCLUSIONS

All Civil works
Incomer to our MCC Control panel
Water and power to be provided by you at the time of installation
PCB Clearance

We trust our quote is in line with your requirement and may we look forward to receive your valued order at the earliest.

With Warm Regards,

FOR Crystal Drops

Aswatha Narayana. C

MOB NO. 9448440647 / 9108518721

Principal,
G. P. Porwal Arts, Comm. &
V. V. Salimath Sc. College,
SINDGI-586128. College Code: 5234

TAX INVOICE(Page 2)

Vision Communications (2020-2021) G-5,SRD Plaza,Opp.Chotula Sweets Ram Mandir Road VIJAYAPUR 586101(KARNATAKA) MOB:9902167530 GSTIN/UIN: 29ALMPJ8656N1Z2 State Name : Karnataka, Code : 29 E-Mail : sagarja27@gmail.com				Invoice No. e-Way Bill No. 131		Dated 24-Dec-21	
				Delivery Note		Mode/Terms of Payment	
				Reference No. & Date.		Other References	
				Buyer's Order No.		Dated	
				Dispatch Doc No.		Delivery Note Date	
				Dispatched through		Destination	
Consignee (Ship to) G P Porwal Arts& Commerce V V Salimath Science College Shindagi State Name : Karnataka, Code : 29				Terms of Delivery			
Buyer (Bill to) Principal of G P Porwal Arts, Commerce & V V Salimat H Science College Sindgi State Name : Karnataka, Code : 29							

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
6	Polycab Solar 1 Core X4sq.mm Red Cables	8544600	150 Mtr	60.00	Mtr		9,000.00
7	INSTALLATION CHARGES	85219090	1 each	5,000.00	each		5,000.00
							1,44,000.00
							12,360.00
							12,360.00
	CGST						
	SGST						
	Round Off						
	Total						1,68,720.00

Amount Chargeable (in words) **E. & O.E**
One Lakh Sixty Eight Thousand Seven Hundred Twenty INR Only

Company's PAN : ALMPJ8656N

Declaration

TERMS & CONDITION FOR SALES OR GOODS:

> Goods once sold will not be taken back or exchanged. > No Warranty on breakages, burnout or any kind of physical damage.

> Penalty of Rs. 200/- is chargeable for bounced cheques.

Company's Bank Details

Bank Name : Axis Bank

A/c No. : 911020061367147

Branch & IFS Code : BIJAPUR (KT) & UTIB0000525

for Vision Communications (2020-2021)

Authorised Signatory _____

This is a Computer Generated Invoice

Principal,
G. P. Porwal Arts, Comm. &
V. V. Salimchand College,
SINDGI-586128. College Code: 5224

TAX INVOICE (Page 3)

Vision Communications (2020-2021) G-5, SRD Plaza, Opp. Chhotulal Sweets Ram Mandir Road VIJAYAPUR 586101 (KARNATAKA) MOB: 9902187530 GSTIN/UIN: 29ALMPJ8656N1Z2 State Name : Karnataka, Code : 29 E-Mail : sagarja27@gmail.com		Invoice No. 84		e-Way Bill No.		Dated 30-Sep-21	
		Delivery Note		Mode/Terms of Payment			
		Reference No. & Date.		Other References			
		Buyer's Order No.		Dated			
		Dispatch Doc No.		Delivery Note Date			
Consignee (Ship to) G P Porwal Arts & Commerce V V Salimath Science College Shindagi State Name : Karnataka, Code : 29		Dispatched through		Destination			
		Terms of Delivery					
Buyer (Bill to) Principal of G P Porwal Arts, Commerce & V V Salimat H Science College Sindgi State Name : Karnataka, Code : 29							

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
		SGST					25,075.00
	Total		52 each				10,53,150.00

E. & O.E

Amount Chargeable (in words) **Ten Lakh Fifty Three Thousand One Hundred Fifty INR Only**

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
85414011	8,33,000.00	2.50%	20,825.00	2.50%	20,825.00	41,650.00
85044090	1,70,000.00	2.50%	4,250.00	2.50%	4,250.00	8,500.00
Total	10,03,000.00		25,075.00		25,075.00	50,150.00

Tax Amount (in words) : **Fifty Thousand One Hundred Fifty INR Only**

Company's PAN : **ALMPJ8656N**

Declaration

TERMS & CONDITION FOR SALES OR GOODS:

> Goods once sold will not be taken back or exchanged. > No Warranty on breakages, burnout or any kind of physical damage.

> Penalty of Rs. 200/- is chargeable for bounced cheques.

Company's Bank Details

Bank Name : **Axis Bank**

A/c No. : **911020061367147**

Branch & IFS Code : **BIJAPUR (KT) & UTIB0000525**

for Vision Communications (2020-2021)

Authorized Signatory

This is a Computer Generated Invoice

Principal,
G. P. Porwal Arts, Comm. &
V. V. Salimath Sc. College,
SINDGI-586128. College Code: 5234

TAX INVOICE

Vision Communications (2020-2021)

G-5,SRD Plaza,Opp.Chotulal Sweefa
Ram Mandir Road VIJAYAPUR
586101(KARNATAKA)
MOB:9902187530
GSTIN/UIN: 29ALMPJ8656N1Z2
State Name : Karnataka, Code : 29
E-Mail : saagarja27@gmail.com

Consignee (Ship to)

G P Porwal Arts & Commerce V V Salimath Science
College Shindagi
State Name : Karnataka, Code : 29

Buyer (Bill to)

Principal of G P Porwal Arts, Commerce & V V Salimat
H Science College Sindgi
State Name : Karnataka, Code : 29

Invoice No. e-Way Bill No.

131

Dated

24-Dec-21

Delivery Note

Mode/Terms of Payment

Reference No. & Date.

Other References

Buyer's Order No.

Dated

Dispatch Doc No.

Delivery Note Date

Dispatched through

Destination

Terms of Delivery

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
1	6X2 Solar Module Mounting Structure With SS Fastene	73089090	3 each	22,000.00	each		66,000.00
2	7x2 Solar Module Mounting Structure with SS Fastene	73089090	1 each	25,000.00	each		25,000.00
3	Solar On Grid 2 In 2 Out DCDB -2120ON1000	85414019	2 each	10,000.00	each		20,000.00
4	ACDB 2In 1Out 20KV Ongrid	85389000	1 each	10,000.00	each		10,000.00
5	Polycab Solar 1 Core X4sq.mm Black Cable	54446090	150 each	60.00	each		9,000.00

continued ...

This is a Computer Generated Invoice

Principal,

G. P. Porwal Arts, Comin. &
V. V. Salimath Sc. College,
SINDGI-586128. College Code: 5234

TAX INVOICE
(Tax Analysis)

Invoice No. 131

Dated 24-Dec-21

Vision Communications (2020-2021)
G-5, SRD Plaza, Opp. Chotulal Sweets
Ram Mandir Road VIJAYAPUR
586101 (KARNATAKA)
MOB: 9902167530

GSTIN/UIN: 29ALMPJ8656N1Z2
State Name : Karnataka, Code : 29
E-Mail : sagarja27@gmail.com

Party : Principal of G P Porwal Arts, Commerce & V V Salimat
H Science College Sindgi

State Name : Karnataka, Code : 29

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
73089090	91,000.00	9%	8,190.00	9%	8,190.00	16,380.00
85414019	20,000.00	6%	1,200.00	6%	1,200.00	2,400.00
85389000	10,000.00	9%	900.00	9%	900.00	1,800.00
54446090	9,000.00	9%	810.00	9%	810.00	1,620.00
8544600	9,000.00	9%	810.00	9%	810.00	1,620.00
85219090	5,000.00	9%	450.00	9%	450.00	900.00
Total	1,44,000.00		12,360.00		12,360.00	24,720.00

Tax Amount (in words) : Twenty Four Thousand Seven Hundred Twenty INR Only

for Vision Communications (2020-2021)

Authorised Signatory

Principal,
G. P. Porwal Arts, Comm. &
V. V. Salimath Sc. College,
SINDGI-586128. College Code: 5234

Tax Invoice

(EXTRA COPY)



TEKSONS
E-2/P-10, M.I.D.C. KUPWAD BLOCK
SANGLI
GSTIN/UIN: 27AAVPT6309E1Z7
State Name : Maharashtra, Code : 27
E-Mail : teksons@rediffmail.com

Buyer (Bill to)

Principal, GP Porwal Art, Com. & VV Salimath Sc Clg
Sindgi, Dist. Vijayapura
State Name : Karnataka, Code : 29
Place of Supply : Karnataka

Invoice No.	Dated
TK/21-22/202	7-Feb-22
Delivery Note	Mode/Terms of Payment
DN/21-22/202	
Buyer's Order No.	Dated
Tel. By Mr. Sagar Jagadannavar	31-Jan-22
Dispatch Doc No.	Delivery Note Date
	7-Feb-22
Dispatched through	Destination
VRL Logistics	Vijapur
Terms of Delivery	

Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1 Servo Voltage Stabilizer Input- 360V to 460V AC 3 phase 4 wire Output- 415vt-1% AC 3 phase 4 wire Capacity- 30kVA Air cooled type Sr No. 1311	85044040	1 Nos	60,000.00	Nos	60,000.00
Transport (Sales) IGST					1,500.00 11,070.00
Total		1 Nos			₹ 72,570.00 E. & O.E

Amount Chargeable (in words)

INR Seventy Two Thousand Five Hundred Seventy Only

HSN/SAC	Taxable Value	Integrated Tax Rate	Integrated Tax Amount	Total Tax Amount
85044040	61,500.00	18%	11,070.00	11,070.00
Total	61,500.00		11,070.00	11,070.00

Tax Amount (in-words) : INR Eleven Thousand Seventy Only

Company's PAN : AAVPT6309E

Declaration

We declare that this invoice shows actual price of the good and / or service described and that all particulars are true and correct.

Customer's Seal and Signature

Company's Bank Details

A/c Holder's Name : TEKSONS
Bank Name : State Bank Of India
A/c No. : 30424013903
Branch & IFS Code : Kupwad MIDC & SBIN0001939

for TEKSONS



Authorized Signatory

Principal,

G. P. Porwal Arts, Comm. &
V. V. Salimath Sc. College,
SINDGI-586128, College Code: 5234

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