

### SHAHEED NANDKUMAR PATEL VISHWAVIDYALAYA, RAIGARH (C.G.)

(A State University Established under Chhattisgarh Vishwavidyalaya Adhiniyam, 1973)

# Scheme and Syllabus

of

# Bachelor of Arts

Year-First

W.E.F. Session: - 2023-24

Syllabus Approved by the Central Board of Studies

#### B.A. Part - I **English Literature** Paper-I Literature in English-1550-1750

Unit - 1 of Annotation is compulSory, and passages to be set from Units (II to V) at least one from each (i) unit, 3 to be attempted. 1x10=10 Multiple choice/objective type questions to be set Unit vii, I5 to be set 10 be attempted. (ii) 10x5=10

From Unit-il to VI- 8 questions to be set at least one from each unit - 5 to be attempted. (iii) Word Limit for each answer 300 to 400 words.

#### **UNIT-I ANNOTATIONS UNIT- II POETRY**

(a) William Shakespeare

Sonnet No. 1 From Fairest Creatures,

Sonnet No. 55 Not Marble nor the Glided Monuments

(b) John Milton

How Soon Hath Time the subtle of Youth....

(c) John Donne

Death Be not Proud, The Good Morrow

**UNI-III POETRY** 

(a) John Dryden

Portrait of Shadwell.

(b) Alexander Pope

From An Essay on Criticism (True ease in writing ... And the

world's victor stood subdu'd by sound!)

**UNIT-IV PROSE** 

(a) Francis Bacon

Of Studies, Of Health, Of Friendship

(b) Joseph Addison -

Sir Roger at Home

Of the Club.

(c) Richard Steele

**UNIT-V DRAMA** William Shakespeare

The Tempest

**UNIT-VI FICTIOIN** 

Jonathan Swift

Gulliver's Travels

#### **UNIT-7 LITERARY TOPICS**

(i) Poetic Forms

Lyric, Sonnet, Ode, Elegy, Ballads, Epic, Objective and

Subjective Poetry.

(ii) Dramatic Forms

Mystery and Miracle Plays, Morality Plays, Tragedy, Comedy,

Poetic Drama, Interlude, Melodrama, Farce, Masque.

(iii) Prose Forms

Objective and Subjective Essays, Novels, Autobiography, Travel

Writing.

(iv) Dramatic Devices

Plot, S oliloquy, Aside, Characterization, Dramatic Irony

# B.A. Part I English Literature Paper -I ( Literature in English :1550-1750) Course outcome

#### After completing the Course the students will able to demonstrate:

- co 01- a comprehensive knowledge of the literary works in English produced by the British writers this knowledge will include the various literary forms fictional as well as non- fictional employed by the British writers and Historical and Literary topics as well.
- co 02- a critical understanding of the poets tike shakespeare' Milton and John Donne, John Dryden and Alexander Pope, playwrights likeshakespeare' non-fictional writers like Bacon, Addison, and Steele and the novelists like Swift.
- co 03- a capacity to compare and contrast the different fiterary qualities of the writers and critically rank them in evaluative terms.
- co 04- a critical inclination to read literature as a socio-cultural document'
- co 05a research tendency to go for innovative studies like English Literature in the postcolonial light of the latest research insights.
- co 06- a socio-political sense of responsibility to stand up against colonizing human tendencies.
- co 07- a visibre riterary- criticar bent towards understanding rife through literature.

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# B.A. part I

#### **English Literature**

Paper -II (Literature in English: 1750-1900)

#### Course outcome

# After completing the Course the students will able to demonstrate: -

- Co 01- a Comprehensive knowledge of the literary works in English produced by British writers this knowledge will include the various literary forms fictional as well as non-fictional employed by the British writers and Historical and Literary topics as well.
- Co 02- a critical understanding of the poets like Blake, Wordsworth, Coleridge, Shelley, Keats, Tennyson and Browning and non fictional writers like Lamb and Hazlit and the novelists like Jane Austen and charles Dickens.
- Co 03- a capacity to compare and contrast the different literary qualities of the writers with the critically rank them in evaluative terms.
- Co 04- a critical inclination to read literature as a socio-cultural document.
- Co 05- a research tendency to go for innovative studies like English Literature in the postcolonial light of the latest research insights.
- Co 06- a socio- political sense of responsibility to stand up against colonizing human tendencies.

Co 07- avisible literary- critical bent towards understanding life through literature .

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Program: B.A./B.Sc.		Class: I Year.	Session: 2023-24	
		er I: Physical Geography (UGeo-010)		
Course Learning		on of course, the students will have abil		
Outcome (CLO)  1. Understand the within the earth 2. Analyze how the of land forms. 3. Understand about a shape land for 4. Assess the role 5. Identify the Attypes and under 6. Identify the reli		internal structure of the earth, rocks that act to deform it. e natural and anthropogenic operating to the denudation processes that unceasures and reduce relief. of structure, stage and time in shaping to mospheric pressure, winds humidity, stand the Air Masses and Fronts and the eff of the ocean bottom, temperature, ref and oceanic resources.  Content of the Course	Factors affect the development ingly act at the earth's surface the land forms.  concept of precipitation, itse Weather Forecasting.	
Unit		Торіс		
1.	Origin of the Earth, (Wegner), Plate Tect	Geological Time Scale, Earth's Interionics, Isostasy.	ior, Continental Drift Theory	
2.	Earth movements: Earthquakes and Volcanoes, Rocks, Weathering, Erosion and Norm cycle of erosion, Evolution of landscapes: Fluvial, Aeolian (Arid and Semi Arid Glacial, Karst.			
3.	Elements of Weather and Climate, Composition and Structure of the Atmosphere. Worl patterns of Atmospheric Temperature, Pressure, and Winds.			
4.		idity and Disturbances, Climatic ant of world climate patterns: Equator		
5.		cean, Distribution of Temperature and S Ocean Deposition. Law of the Sea.	Salinity of Oceans and Seas,	
		ces: Text Books, Reference Books, Ot	her Resources	
1. Ahnno 2. Chorlo 3. Dayal 4. Gauta 5. Holm 6. Jha, V 7. Spark 8. Sharm 9. Singh 10. Steers 11. Thorn 12. Strahlo 13. 程语, 平 14. 程语, 平 15. 국祖两,	, P.: A Text book of Com, Alka: Geomorphology, s, A.: Principles of Phy 7.C.: Geomorphology, s, B.W. Geomorphology, a, H.S. (cd.): Perspect of S.: Geomorphology, s, J.A.: The Unstable Edury, W.I.). Principles er, A.N.: Physical Geomorphology of A.N.: Physical A.N.: Physical Geomorphology of A.N.: Physical A.N.: Physical Geomorphology of A.N.: Phys	rphology of India. ysis in Geomorphology, Methuen, Lond Geomorphology, R.K. Books, New Delhi logy, Sharda Pustak Bhawan, Allahabad. ysical Geology, Thomas Nelson, London Vasundhara Publication, Gorakhpur. gy, Longman, London, 1960. tive in Geomorphology, Concept, New D Prayag Publication, Allahabad, 1998. Earth Methuen, London. of Geomorphology, John Wiloy, New Y graphy, Willey, New York. ल, तारा बुक ऐजेन्सी, वारणासी। गोल, प्रयाग पुस्तक भवन, इलाहाबाद। क भूगोल, पंच ील प्रका ान, जयपुर। मूगोल, रावत पब्लिक ान, जयपुर।	elhi, 1980.	
Suggested	equivalent online cou		lectures available on youtube	

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Program:	B.A./B.Sc.	Class: 1 Year.	Session: 2023-24
	Paper	II: Human Geography (UC	Geo-0102)
Course Learning Outcome		f course, the students will have the major concepts and ke	ey principles of Human Geography
(CLO)	including place, space,	scale and landscape. sity of the cultural backgrou	
			by understanding the role location
		Content of the Course	
Unit		Topic	
1.	Meaning, Definition, N relationship: Determinist Human Development Inc	m, Possibilism, Determinism	an Geography, Man - environment, Neo-Determinism and Probabilism
2.	Human Races: Formation Human adaptation to env	n and Evolution, Characteri vironment: Eskimos, Bushma	stics, Classification and Distribution
3.	Growth, Density and D distribution. Over, Under	istribution of World Popul r, and Optimum Population;	ation and factors influencing spatial
4.	Rural Settlements: Char Urban Settlement- Types	racteristics, Types and Regi s and Pattern.	onal Pattern, Rural Houses in India
5.	Environmental Issues: Desertification, Air, War	Global Warming, Climate ter and Soil Pollution.	Change, Acid rain, Deforestation
Suggeste	Learning Resources	:Text Books, Reference Bo	ooks, Other Resources
2. De B and S	Blij, H.J.(1996): Human G Sons, New York,		uin Books, London. and Space,. 2nd edition. John Wiley Dan, S. (2007): Human Geography
Land 4. Hagg 5. Hugg 6. Huss 7. John	scapes of Human Activitie gett, P. (2004): Geography: gett, R. J. (1998): Fundame ain, M. (1994): Human Ge ston, R. J., Gregory, D.	es. McGraw-Hill, New York. A Modern Synthesis. 8th edentals of Biogeography, Routeography, Rawat Publications, Pratt, G. and Watts, M.	10 <sup>th</sup> edition. ition, Harper and Row, New York. ledge, London. , Jaipur. (2009): The Dictionary of Human
		Blackwell Publishers, Oxford. ography, Oxford University P	the state of the s
9. Single 10. Single	h, K. N. and Singh, J. (200 h, L.R. (2005): Fundament h, D. M.(1977): Human G	1): Manav Bhugol. Gyanoday tals of Human Geography, Sh	ya Prakashan, Gorakhpur. 2 <sup>nd</sup> edition. arda Pustak Bhawan, Allahabad ch, Edward Arnold (Publishers) Ltd.
	d equivalent online course ibnet.ac.in 2. virtual l	: ectures available on YouTub	e

#### एक वर्षीय प्रमाणपत्र पाठ्यकम (सत्र-2022-23)

#### बी.ए. भाग-1 (हिंदी साहित्य) प्रथम प्रश्नपत्र प्राचीन हिंदी काव्य

पूर्णांकः 75 क्रेडिट – 5, 90 कालखण्ड

उद्देश्य एवं प्रस्तावना : प्राचीन से यहां तात्पर्य है— आधुनिक काल से पूर्व का काल। सही अर्थ में हिदी भाषा और साहित्य का विकास आदिकाल से शुरू होता है। इसमें धार्मिक तथा ऐतिहासिक दो प्रकार का साहित्य मिलता है, जो प्रबंध, मुक्तक, रासो, फागु, चिरत, सुभाषित आदि विविध काव्यरूपों में अभिव्यंजित है। मध्यकालीन साहित्य की पृष्ठभूमि के रूप में इसे प्रतिष्ठापित किया जाता है। मध्यकालीन काव्य में भवितकाव्य, जहां लोक जागरण को स्वर देने वाला है वहीं रीति काल अपने लौकिक, श्रृंगारिक, परिदृश्य में तत्कालीन सामाजिक, सांस्कृतिक, राजनीतिक स्थितियों को बेलौस अभिव्यंजित करता है। अतः भाषा संस्कृति, विचार, मानवता, काव्यत्व, काव्यरूपता, लौकिकता—पारलौकिता आदि दृष्टियों से इसका अध्ययन अत्यावश्यक है।

पाठ्य विषय : प्राचीन हिन्दी काव्य की पृष्टभूमि एवं प्रवृत्तियाँ

कबीरदास : (कबीर-कांतिक्नार जैन-प्रारंभिक 50 साखियाँ।)

2 जायसी : (संक्षिप्त पदमावत- श्यामसुंदर दास, नागमती वियोग वर्णन)

सूरदास : (भ्रमरगीत सार-संपादक आचार्य रामचंद्र शुक्ल- प्रारंभिक 25 पद)

तुलसीदास : "श्रीरामचरितमानस" के सुंदरकांड से प्रारंभिक 30 दोहे, चौपाई, छंद सहित।

5. घनानन्द : (घनानन्द- संपादक, विश्वनाथ प्रसाद मिश्र- प्रारंभिक 25 छंद)

द्रुतपाठ : इसके अंतर्गत 1. विद्यापति 2.रहीम 3.रसखान 4.गोपाल मिश्र का अध्ययन किया जाएगा, जिनमें से किन्दी दो पर लघु उत्तरीय प्रश्न पूछे जाएंगे।

#### अंक विभाजन

3 व्याख्याएं	अंक-21
2 आलोचनात्मक प्रश्न	अंक-24
3 लघु उत्तरीय प्रश्न	अंक-15
15 वस्त्निष्ट प्रश्न	अंक-15

कुल-75 अंक

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### इकाई विमाजन :

इकाई एक - व्याख्या 18 कालखण्ड इकाई दो- कबीर, जायसी 18 कालखण्ड इकाई तीन - सूर, तुलसी, घनानंद 18 कालखण्ड इकाई चार - द्रुत पाठ के कवि- विद्यापित, रहीम, रसखान, गोपाल मिश्र 18 कालखण्ड इकाई पाँच - वस्तुनिष्ठ प्रश्न (सम्पूर्ण इकाई से) 18 कालखण्ड

### पाठ्यक्रम अध्ययन की परिलब्धियाँ (CLO)

- 1. विद्यार्थियों को हिंदी साहित्य की प्रारंभिक काव्य परंपरा एवं रचना शिल्प से परिचित कराना।
- प्राचीन हिंदी काव्य के अंतर्गत आदिकाल, भिक्तकाल एवं रीतिकाल के प्रतिनिधि कवियों के साहित्य के प्रति मूलभूत समझ विकसित करना।
- 3. साहित्य के माध्यम से विद्यार्थियों में प्रेम, सद्भाव एवं जीवन मूल्यों का विकास करना।
- छत्तीसगढ़ प्रदेश के कवियों एवं उनके साहित्यिक अवदान के प्रति विद्यार्थियों में अभिक्षिय जागृत करना।

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#### बी.ए. भाग–1 (हिंदी साहित्य) द्वितीय प्रश्नपत्र हिंदी कथा साहित्य

पूर्णांकः 75 क्रेडिट ~ 5, 90 कालखण्ड

उद्देश्य एवं प्रस्तावना : गद्य की प्रमुख विधाओं का दुत विकास इनकी लोकप्रियता का प्रमाण प्रस्तुत करता है। इसमें आधुनिक जीवन, अपनी विविध किमयों के साथ यथार्थ रूप में अभिव्यंजित हुआ है। जीवन की अनुभूतियां, संवेदनाओं तथा विविध परिस्थितियों के साक्षात्कार के लिए इनका अध्ययन सर्वथा अपेक्षित है।

पाठ्य विषय : व्याख्या एवं आलोचनात्मक प्रश्नों के लिए एक उपन्यास एवं आठ कहानीकारों की एक-एक प्रतिनिधि कहानी का अध्ययन आवश्यक है।

उपन्यासः	1. गबन	-मुंशी प्रेमचंद
कहानी	1. पूस की रात	– मुंशी प्रेमचंद
	2. आकाशदीप	जयशंकर प्रसाद
	3. परदा	– यशपाल
	4. लाल पान की बेगम	<ul> <li>फणीश्वरनाथ रेणु</li> </ul>
	5. मलबे का मालिक	– मोहन राकेश
	6. चीफ की दावत	<ul> <li>भीष्म साहनी</li> </ul>
	7. जली हुई रस्सी	– गुलशेर खां शानी
	<ol> <li>नकली हीरे</li> </ol>	- मन्नू भंडारी

द्रुतपाठ के लिए निम्नांकित चार कथाकारों का अध्ययन अपेक्षित है, जिनमें से किन्ही दो पर लघु उत्तरीय प्रश्न पूछे जाएंगे।

1.उपेन्द्रनाथ अश्क 2.बालशौरि रेड्डी 3.शिवानी 4.पदुमलाल पुन्नालाल बख्शी

#### अंक विभाजन

3 व्याख्याएं अंक-21
 2 आलोचनात्मक प्रश्न अंक-24
 3 लघु उत्तरीय प्रश्न अंक-15
 15 वस्तुनिष्ठ प्रश्न अंक-15

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#### इकाई विभाजन :

इकाई एक - व्याख्या

18 कालखण्ड

इकाई दो- गबन(उपन्यास), पूस की रात, आकाशदीप, परदा (कहानियाँ)

18 कालखण्ड

इकाई तीन —लाल पान की बेगम, मलबे का मालिक, चीफ की दावत, जली हुई रस्सी,

इकाई चार -(क) दुत पाठ के कथाकार--उपेन्द्रनाथ अश्क, बालशौरि रेड्डी, शिवानी, पदुमलाल पुन्नालाल बख्शी

(ख) हिंदी कथा साहित्य का विकास

१८ कालखण्ड

इकाई पाँच - वस्तुनिष्ठ प्रश्न/अतिलघुउत्तरीय प्रश्न (सम्पूर्ण पाठ्यकम से) 18 कालखण्ड

### पाठ्यकम अध्ययन की परिलब्धियाँ (CLO)

- 1. विद्यार्थियों को हिंदी उपन्यास एवं हिन्दी कहानी की विकास यात्रा से परिचित कराना।
- 2. उपन्यास एवं कहानी विधा की शिल्पगत विशेषताओं से अवगत कराना।
- मुंशी प्रेमचंद एवं सुप्रसिद्ध कहानीकारों के व्यक्तित्व, कृतित्व एवं साहित्यिक अवदान से विद्यार्थियों को परिचित कराना।
- छत्तीसगढ़ प्रदेश के साहित्यकारों के रचनात्मक कौशल एवं हिंदी कथा साहित्य की अंतर्वस्तु की समझ विकसित करना।

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# बी. ए. प्रथम, प्रश्न पत्र प्रथम B. A. First Paper 1st

# प्राचित्र

# राजनीतिक सिद्धान्त Political Theory COURSE OUTCOMES

Theory is the starting point of any social sciences that is why political theory is almost universal in BA part one syllabus of political science. Therefore it is pertinent to make students acquainted with proposed course to the students with fundamental theories of political science. Basic Knowledge of important concepts such as Liberty, Justice, Citizenship, Representation, rule of law. Role of political theory to understand political science and political life as well.

	COURSE SPECIFIC OUTCOMES
	After completion of the course, the student shall have a fair idea about
CSO 1	The meaning of nature and scope and scientific instinct of political science.
CSO 2	The state as a core concept of political science. Its evolution theories and relation with individuals.
CSO 3	The role of liberty and the question of equality in democracy. Evolution of democracy and its theories.
CSO 4	The concept of constitution, separation of powers and theory of representation.
CSO 5	The functional machinery of electoral democracy like political party system and pressure groups. Role of State as welfare agency, and as an agency of social change.

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- 10. Andrew Shorten (2016) Contemporary Political Theory, Palgrave Macmillan, London.
- 11. David Held (ed.) (1991) Political Theory Today, Stanford University Press.
- 12. Sushila Ramaswamy (2015) Political Theory: Ideas & Concepts, PHI Learning Private Limited, Delhi.
- 13. Adi H. Doctor (1985) Issues in Political Theory, Sterling Publishers Pvt. Ltd. New Delhi
- 14. A. C. Kapoor (2009) Principles of Political Science, S. Chand Publishing, Delhi.
- 15. Eddy Asirvatham & K.K. Mishra (2010) Political Theory, S. Chand Publishing Delhi.
- 16. Vidya Dhar Mahajan (2013) Political Theory (Principles of Political Science), S. Chand Publishing, Delhi.

आशीर्वादम (1985) : राजनीतिक सिद्धांत - एस चन्द एण्ड कम्पनी । नई दिल्ली ।

अंबादत पंत हरिमोहन जैन मदन गोपाल (1985) : राजनीतिक सिद्धांत - । सेन्ट्रल पब्लिशिंग हाउस। इलाहाबाद । उ.प्र.

शकील हुसैन (2018) : राजनीतिक सिद्धांत : अवधारणात्मक परिचय । छ.ग. राज्य हिन्दी ग्रन्थ अकादमी . रायप्र, छ. ग

https://youtu.be/o05gcwF3 Mk

Note: Students may consult online Research Articles from JSTOR, swayam, mooc google scholar, google website and other related online websites.

# बी. ए. प्रथम प्रश्न पत्र द्वितीय B. A. FIRST PAPER 2nd



### भारतीय शासन एवं राजनीति Indian Government and Politics

#### **COURSE OUTCOMES**

Proposed course acquaints the students with values and the struggle of national movement. Explains constitutional development as backdrop of Indian constitution. This course makes students familiar with knowledge and execution of the Indian constitution and political system.

#### COURSE SPECIFIC OUTCOMES

After completion of the course, the student shall have a fair idea about

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The values and importance of freedom struggle and constitutional development in the making of Indian constitution and evolution of our democratic system and substantive democracy.

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CSO 2	The basic features, fundamental rights, directive principles of state and amendment process of the constitution.
CSO 3	The constitutional provisions and functioning of the union executive and legislature.
CSO 4	The constitutional plan of the Judicial system of the country and state executive.
CSO 5	State legislature to the election commission of India, electoral democratic processes like caste-politics interaction, communalism etc.

#### इकाई 1

असहयोग आन्दोलन, सविनय अवज्ञा आन्दोलन, भारत छोड़ो आन्दोलन । भारत का संविधानिक विकास , 1909 1919 और 1935 का अधिनियम ।

#### Unit 1

Non-cooperation Movement, Civil Disobedience Movement, Quit India Movement. Constitutional Development of India Acts of 1909, 1919 and 1935.

#### डकाई 2

भारतीय संविधान : प्रस्तावना, विशेषताएं, स्रोत, । मौलिक अधिकार, मूल कर्तव्य, नीति निर्देशक तत्व । संविधान संशोधन प्रक्रिया ।

#### Unit 2:

Constitution of India :Preamble, features, Sources. Schedules,citizenship.Fundamental Rights and Duties, Directive Principles of State Policy. Constitution Amendment Process. इकाई 3

राष्ट्रपति, उपराष्ट्रपति , मन्त्रिपरिषद् और प्रधानमन्त्री । संसद - लोकसभा और राज्यसभा । सर्वोच्च न्यायालय संगठन कार्य अधिकार , न्यायिक पुरावलोकन । नियंत्रक एवं महालेखा परीक्षक । निर्वाचन आयोग ।

#### Unit 3:

President, Vice President, Council of Ministers and Prime Minister. Federal Parliament Lok Sabha and Rajya Sabha. Supreme court - Organization Functions, Powers, Judicial Review. Judicial Activism. Election, comptroller and auditor general.

#### इकाई 4

राज्य विधायिका, राज्यपाल मन्त्रिपरिषद् और मुख्यमन्त्री । राज्य उच्च न्यायालय - संगठन , कार्य अधिकार ।

#### Unit 4:

Legislature, Executive: Governor, Council of Ministers and Chief Minister. State High Court - Organization , Functions, Rights.

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# SOCIOLOGY

#### B.A. PART-I

### Paper - I INTRODUCTION TO SOCIOLOGY

(Paper Code - SO-105)

Maxi. Marks- 75

UNIT-I Sociology: Meaning, Nature, Scope, Subject Matter and Significance.

Basic concept: Society, Community, institution, Association, group, Status and

role.

UNIT-II Social Institutions: Family, Marriage and Kinship.

Culture and Society: Culture, Socialization, The individual and society, social

control, norms, values.

UNIT-III Social Stratification: Mobility - Meaning forms and theories.

Social Mobility: Meaning forms and theories.

UNIT-IV Social change: Meaning and Pattern, types, factors, evolution and progress.

UNIT-V Social Systems and Processes: Social System - Meaning, characteristics and

elements.

Social process: Meaning, elements, characteristics and types.

#### Recommended Books:

1 Bottomore T.B., Sociology- A guide to Problems and Literature, Bombay. George Allen and unwin(India) 1972.

2 Inkeles, Alex, What is Sociology? New Delhi, Prentice Hall of India 1987.

3 Jayram, N- Introdutory Sociology, Madras MaCmillan India 1988.

4 Johnson Harry, M., Sociology of systematic Introduction New Delhi Allied Publishers

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# SOCIOLOGY B.A. PART-I PAPER-II

#### CONTEMPORARY INDIAN SOCIETY

(Paper Code- SO-106)

Maxi, Marks- 75

- Classical View about Indian Society :: Verna, Ashram, Karma, Dharma and UNIT-I Purusharth
- UNIT-II The Structure and composition of Indian Society.

Structure: Village, Towns, Cities and Rural - Urban Linkage. Compositions: Tribes, Dalits, Women and Minorities.

- UNIT-III Basic Institutions of Indian Society Caste system, Joint Family, Marriage and Changing dimensions.
- UNIT-IV Familial Problems: Dowry, Domestic violence, Divorce, Intra-intergenerational conflict, problem of elderly.
- UNIT-V Folk Culture of Chhattisgarh- A. Customs, B. Traditions, C. Food Habits and D. Festivals

#### Recommended Books:

- 1. Dube, S.C. 1995. Society in India, New Delhi: National Book Trust.
- 2. Mandelbaum, D.G. 1970. Society in India, Bombay : Popular Prakashan.
- 3. Shrinivas, M.N. 1973. Social Change in Modern India, California: University of California
- 4. Shrinivas, M.N. 1973. Social Change Structure, New Delhi: Hindustan Publishing Corporation.
- 5. Uberoi Patricia, 1993. Familly and Marriage in India, New Delhi : Oxford University press.



# SHAHEED NANDKUMAR PATEL VISHWAVIDYALAYA, RAIGARH (C.G.)

(A State University Established Under Chhattisgarh Vishwavidyalaya Adhiniyam, 1973)

# Scheme and Syllabus

of

**Bachelor of Commerce** 

Year-First

W.E.F. Session: - 2023-24

Syllabus Approved by the Central Board of Studies

Class Name	B.Com. Part- 1 (CCC-2022)
Paper Code	Paper 3 CC-2201
Title of Subject	Financial Accounting
Objective	The course aims to help learners to acquire conceptual knowledge on financial accounting to impart skills for recording various kinds of business transactions with G.S.T. and to prepare financial statements
Max Marks - 75+25	Min Marks 25+10
Credit Value	5

# **Detailed Syllabus**

Units	Content of the syllabus	No. of lectures
Unit- 1	Accounting: An introduction: Development, Definition, Needs, objectives, Branches of Accounting, Basic Accounting principles concept and conventions Accounting standard: National & International Accounting Transaction: Concept of Single and Double entry system, Books of original Records, journal, ledger, sub division of journal cash book (including GST Transaction) and Trial balance	15
Unit- 2	Final Accounts: Manufacturing Accounts, Trading Accounts, Profit Loss Account, Balance Sheet, Adjustment Entries with various provision and reserves.  Rectifications of Errors: Classification of errors, location of errors, Rectification of errors, Suspense account, Effect on profit Depreciation accounting; methods of recording depreciation, methods for providing depreciation, Depreciation of different assets; Indian accounting standard and Income Tax,	15
Unit- 3	Computerized Accounting System (using any popular accounting systems); Creation of Vouchers; recording transactions; preparing reports, cash book, bank book, ledger accounts, trial balance, Profit and loss account, Balance Sheet, Fund Flow statement, Cash Flow Statement, Selecting and shutting a Company, Backup and Restore data of a Company.	15

	Unit- 4	Accounting for Hire-Purchase Transaction, Journal entries and ledger account in the books of Hire Venders and Hire purchase for large value items including Default and repossession.  Consignment: Features, Accounting treatment in the books of the consignor and consignee.  Accounting for Inland Branches:  Concept of dependent and Independent branches, accounting aspects, debtor's system, stock and debtor's system, branch final accounts system and wholesale basis system. Preparation of consolidated profit and loss accounts and balance sheet with adjustment	15
	Unit- 5	Joint Venture: Features, Accounting procedures, Joint Bank account, Records Maintained by Co-venturer of(a) all transactions (b) only his own transactions. (memorandum joint venture account). Partnership Account: Dissolution of a partnership firm, Amalgamation of partnership Firms, Conversion of partnership firm into limited liability Company	15
	. Cas	se study/Skill based activities/field work/project work etc. (for extra cre	edit)
1. Apply the generally accepted accounting principle while recording transact G.S.T. and preparing financial statement.  2. Demonstrate accounting process under computerized accounting system.  3. prepare cash book and other account necessary while running a business.  4. Evaluate the importance of depreciation		n.	

#### **Suggested Readings:**

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01. Gupta, R.L. and Radhaswamy. M; Financial Accounting Sultan Chand and Sons, New Delhi.

5. prepare dissolution and Amalgamation account of partnership firm:

- 02. Monga J.R. Ahuja Girish and Sehgal Ashok: Financial Accounting; Mayur Paper Back, Noida.
- ,, \_ 03. Shukla M.C. Grewal T.s. and Gupta, S.C.: Advanced Accounts; S. Chand & Co. New Delhi.

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Name And Signature of members

- 04. Singh B.K. Financial Accounting; Wisdom Publishing House, Varanasi.
- 05. Shukla S.M.; Financial Accounting; Sahitya Bhawan Publication; Agra.
- 06. Karim & Khanuja; Financial Accounting; SBPDPublishing House; Agra.
- 07. Agrawal & Mangal; Financial Accounting Universal Publication.

Chairman HOD PG Department HOD UG Department Subject Expert

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	Class Name:		B.Com. Part I (CCC-2022)	
			Paper – 4 (CC- 2202)	
	Title of Sul	oject:	Business Communication	
	Objectives:		The course Aims to impart the learner's skill in reading writing and communication in business field especially using electronic	<del>-</del>
	Max Mark	s - 75+25	Min Marks 25+10	
1	Credit Val	це	5	
			Detail Syllabus	
	Units		Content of the Syllabus	No. of Lecture
	Unit 1	Significance communica communica Self-Develo	Business Communication: — Definition, Concept and of communication. Basic forms of communications;	15
)	Unit 2	Practices in effective listening exerties feedback.	communication: Formal and Informal communication Miscommunication (Barriers) and improving communication, n Business communication - Group Discussions. Seminar. tening Principle of effective listening, Factor of effective - ercises, Oral. Written and Video session, Audience analysis and	15
	Unit 3	Advantage, Disadvantag Business lett	cill - Business letters — Definition, Concepts, Structure, ge. need and kinds of business letter. Essentials of Effective ter, Good news and bad New letters, Office memorandum Writing I letter of Job Application.	15
0	Unit 4	Report Writ report, report prepar Oral Pro Presentation, Sales	ting: Introduction to a Proposal, Short report and formal ation. esentation Principles of Oral Presentation, Factor effecting , Training Presentation, conducting surveys, Speeches to	15
	Unit 5	kinesics, Proxemics, I Interview sk Interview. Modem for	Para Language. ills: Appearing in Interviews; Conducting I interview; mock ins of Communicating: Fax; E-Mail; video Conferencing; etc. I Communication for globe business.	15
ĺ	Case	e study/Skill	based activities/field work/project work as applicable (for ex	tra credit)
	Learning	1- Knov	w Various forms of Communication, Communication Barriers.	
I.	Out comes 2- Com			

<b></b>			ARD OF STUDIES-COMMERCE-PROPOSED SYLLA	
Clas	ss Nan	ne:	B.COM Part-I (CCC-2022)	
Pap	er Coc	le/Paper No:	Paper-5 (CC-2203)	-
Title	e of Su	bject:	Business Mathematics	
Obje	jectives	s:	To enable the students to have such minimum k mathematics as is applicable to business and economic situ	_
Max	x mark	ks: 75 + 25	Min. Marks: 25+10	
Cred	dit Va	lue	5	
		•	Detail Syllabus	
U	Jnit		Content of Syllabus	No. of Lectures
		weighted ave of large numb Ratio- Mean ratios, calcul subtracting the business and Proportion, Proportion, Proportion, Mercentage-election, exaproblems relations	ing and characteristics, comparison of ratios, division of lation of real numbers on basis of ratios, adding or ne same number in terms of ratio, practical use of ratio in consolidation.  Meaning, Characteristics, Difference in ratio and Problems related to Continuous Proportion, Indices fix ratio.  Meaning and utility, rules related to percentage, number, amination, income expenditure, consumption, mixture, atted to population.	15
Uni	nit- 2	and redempt benefits, prob <u>Discount</u> - M cash discount <u>Profit and I</u> gross profit, and sale price	and Brokerage- Meaning, types of business agency, cash ion transactions, commission before and after bonus dems related to the word prior/ due amount.  eaning and types, problems related to trading discount, sequential discount and equivalent discount rate.  Loss- Cost or purchase price, selling price, profit, loss, concept of gross profit, percentage profit loss, purchase is, more than one buyer and seller, dishonesty, adulteration, imission related problems.	15
Uni	iit- 3	transposed ma <u>Determinant</u> of values of comethod	aning and definitions, types of matrix, Algebra of matrix, atrix <u>s</u> -Meaning and definitions, minor, co-factor, calculation determinants up to third order, Laplace's method, Sarru's <u>of Invoice-Meaning</u> , Contents, Advantages and types of	15

Logarithms and Antilogarithms-Meaning, properties, fundamental

compound interest, practical problems related to interest, time, rate, principal and amount. Calculation of interest by third, tenth and tenth

15

laws and types, practical use of logarithm and antilogarithm table

<u>Simple and Compound interest</u>- Principal, amount, concept of real
and nominal rate of interest, difference between simple interest and

rule and common multiplier method.

Unit- 4

Unit- 5	Vedic mathematics -Brief history of Vedic mathematics in Indian knowledge tradition, methods and practice of quick calculation of addition, multiplication, division, square and square root of numbers through Vedic mathematics, method of quick verification of answers from Digit Sum.  Simultaneous equations-Meaning, characteristics, methods of solving equations in two variables- Graphical, Substitution, Elimination and Cross multiplication.	15		
Keywords/	Keywords/Tags: Vedic mathematics, Logarithms, Simultaneous Equations, Ratio, Proportion			
	rokerage, Commission, Average, interest			
Ca	se study/Skill based activities/field work/project work etc. (for extra c	redit)		
1.To apply basic terms of integration in solving practical problems field of as of business. To explain basic methods of business calculus, types and methods of interest account and their basic applications in practice.  2.To solve problems in the areas of business calculus, simple and compound interest account, use of compound interest account, loan and consumer credit.  3.To discuss effects of various types and methods of interest account.  4. Connect acquired knowledge and skills with practical problems in economic practice.				

#### **Suggested Books**

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- 1. Dr. Karim & Agrawal, Business Mathematics SBPD Publishing house, Agra(Both Hindi & English medium)
- 2. Magar Dr. Abhilasha Business Mathematics Himalaya publication Mumbai
- 3. Sancheti & Kapoor Business Mathematics Sultan chand and sons New Delhi
- 4. Sharma J.K. Business Mathematics IK International pvt. Ltd. New Delhi
- 5. Kumar Mrityunjay Business Mathematics S. Chand Publishing New Delhi
- 6. Agrawal Dr. Mahesh Business Mathematics Ramprasad and sons Bhopal

### Name and Signature of Member

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CENTRAL BOAR	RD OF STUDIES-COMMERCE-PROPOSED SYLLABUS		
Class Name	B.Com – 1 <sup>st</sup> Year (CCC-2022)		
Paper Code/Paper No.	Paper – 6 CC-2204		
Title of Subject :	Business Regulatory frame work		
Objectives:	To provide a brief idea about the framework of Indian business laws		
Max Marks – 75 + 25	Min Marks- 25 + 10		
Credit Value	5		

Credit Va	lue	5	
		Detailed Syllabus	
Units		Content of the Syllabus	No. of Lectures
Unit -1	accep	of contract (1872) –I: Nature of contract classification; offer and tance.; capacity of parties to contract, free consent, considerations, ity of object; Agreement declared void.	15
LA Unit-2	Agend	al contracts; Indemnity & Guarantee, Bailment and pledge; Law of cy- Meaning, Modes of creating Agency, Types of Agents, nal Liability of an Agent and Termination of Agency.	15
Unit -3	of God CIF, I	of Goods Act (1930): Definition, Sale & Agreement to sell, Types ods, Conditions & Warranties, Sale by Non-owners, Unpaid Seller, FOB and Ex-Ship Contracts.	15
Unit 4	Featur in the dishor	tiable Instrument Act (1881) Definition of Negotiable instrument; re; promissory note; Bill of exchange cheque; Holder and holder due course; crossing of a cheque, types of crossing; Negotiation; nor and discharge of negotiable instrument, Information blogy Act 2000 and cybercrime Act 2012 related to e- Business	15
Unit - 5	consu Indian	consumer protection Act 2019: Main provision, Definition of mer, consumer Disputes, Grievances redressal machinery; a partnership Act1932, Limited Liabilities partnership Act 2008, auction of Intellectual property Right Act — Copyright, Patent & mark.	15
Case stud	y/Skill	based activities/field work/project work as applicable (for extra	
/	1	To know the students with the basic concept terms & provemercantile and business laws.	
Learning out comes	1	To develop well verse in basic provisions regarding legal for governing the business world.	ramework
*	3	Knowing the rights and liability of every citizen regarding	consumer

Suggested Readings: Book

protection act.

- 1. Kuchal M.C. Business Law: Vikas publishing house, Delhi. (English Medium)
- 2. Lapoor N.D.: Business Law; Sultanchand & Sons, New Delhi. (English Medium)
- 3. Chandha P.R.: Business Law; Galgotia New Delhi. (English Medium)
- 4. Dr. J.K. Vaishnav: Business Law, Sahitya Bhawan Publication Agra (English Medium)

-		11	Name and Signature of	Member
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CENTRAL BOARD OF STUDIES-COMMERCE-PROPOSED SYLLABUS				
Class Name	B. Com Part-I (CCC-2022)			
Paper Code/ Paper No.	Paper – 7 (CC-2205)			
Title of Subject:	Business Environment			
	1. To acquaint students with the local and global environment of business.			
Objectives:	2. To acquaint students with the economic, political and technological environment in business			
	3. To acquire in - depth knowledge of govt. policies and legal environment of business.			
Max Marks 75+25	Min Marks 25+10			
Credit Value	5 .			

<u> </u>	Detailed Syllabus	
Unit	Content of Syllabus	No. of Lecturers
Unit- 1	Business Environment: Type of Environment-internal, external, micro and macro environment. Competitive structure of industry, environmental analysis and strategic management. Managing diversity. Scope of business, characteristics of business. Objectives and the uses of study. Process and limitations of environmental analysis.	15
Unit- 2	Economic Problem of Growth: Inflation Parallel Economy Industrial Sickness  Economic Factors of Growth: Foreign Direct Investment (FDI),  Foreign Portfolio Investment (FPI), Micro, Small and Medium  Enterprises (MAMEs)	15
Unit- 3	International Environment: Trends in World Trade & The Problems of Developing Countries, Foreign Trade & Economic Growth, International Economic Groups: GATT, WTO, UNCTAD, World Bank, IMF, TRIPS, TRIMS Regional Trade Agreements: European Union (EU), ASEAN, SAARC, NAFTA	15
Unit- 4	Govt. Policies: Export-Import Policy, Monetary & Fiscal Policy, Privatization, Liberalization, Globalization, Demonetization, Disinvestment, Foreign Exchange Management Act 2000 Industrial Policy, Industrial Licensing (National & State)	15
Unit- 5	Economic Planning: Need, Objective, Strategy, Review of Previous Plan, NITI AAYOG, Gross Domestic Product: Meaning, Characteristics, calculation and impact in employment & productivity with refence to India & Chhattisgarh.  Economic Environment in Chhattisgarh: Economic of Chhattisgarh – Its Basic Feature, Population of Chhattisgarh and Its Characteristics. Industry and Industrial Development in Chhattisgarh Mineral & Mineral Based Industry in Chhattisgarh.  Agriculture in Chhattisgarh. Forest & Forest Produce in Chhattisgarh. Development of Power in Chhattisgarh. Development of Transport in Chhattisgarh.	15
Case study	/Skill based activities/field work/project work as applicable (for extra cred	lit)

1. Understand relationship between environment and business Applying the environment analysis techniques in Practice.

2. The students will be able to demonstrate and develop conceptual framework of business environment and generate interest in international business.

3. Familiarize with the Nature of local business environment and its component.4. Acquaint students with govt. policies and different roles for the emergence,

upliftment and smooth functioning of business organization.

#### Suggested Readings:

01. Sheikh Saleem, Business Environment, Pearson

02. Francis, Cherunilan, Business Environment, Himalaya Publishing House

03. Gupta C.B., Business Environment Sultan Chand & Sons

04. Paliwar Veena Keshav, Business Environment, PHI Learning Private Limited, Delhi

05. Singh Ranjeet ,Business Environment, Kalyani Publishers New Delhi

06. Sinha V.C., Business Environment (Hindi & English), SBPD Publications Agra

07. Upadhyay Sharma Dayal, Business Environment (Hindi), Ramesh Book Depot Jaipur

08. Singh, Dr. S.K., Business Environment (Hindi), Sahitya Bhawan Publication Agra

09. Jain Dr. S.C., Business Environment (Hindi), Kailash Pustak Sadan, Bhopal

10. Joshi Rosy, Kapoor Sangam, Business Environment (Hindi), Kalyani Publishers New Delhi

#### Name and Signature of Member

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CENTRAL BOARD OF STUDIES-COMMERCE-PROPOSED SYLLABUS			
Class Name	B.Com.1st Year (CCC-2022)		
Paper Code/ Paper No.	Paper- 8 (CC-2206)		
Title of Subjects:	Business Economics		
Objectives:	The course aims to acquaint the learners with fundamental economic theories and their impact on pricing, demand, supply, production, and cost concepts.		
Max Marks 75 +25	Min Marks: 25 + 10		
Credit Value	5		

	Detailed Syllabus	
Units	Content of the Syllabus	No. of Lectures
Unit-I	Introduction: Micro & Macro Economics Meaning, Scope, Importance and limitations, nature, Distinguish between Micro & Macro Economics Business Economics Meaning, Definition, objective and nature & Scope, Role and Responsibilities of a business Economist.  Market Demand Analysis: Meaning of Demand and Determinants of Demand, Changes in Demand, Demand Function Law of Demand, Types of Demand and Exceptions of Law of Demand	. 15
Unit-2	Consumer Behaviour and Elasticity of Demand: Utility Analysis of Demand, Law of Diminishing marginal utility & Consumer Surplus, Indifference Curve technique, Price Line or Budget Line, Concept of Elasticity of Demand, Importance, Types, Calculations of different concepts of Elasticity, Methods of measurement of Price Elasticity of Demand	15
Unit-3	Production Analysis: Meaning of Supply and Supply function, Concepts of Stock and Flow, Determinants of Supply, Law of Supply, Changes in Supply, Production Function: a) Law of Variable Proportions b) Law of Returns to Scale, Economies and Diseconomies of Scale	15
Unit-4	Market Morphology and Equilibrium of the Firm and Industry: Meaning, Classification and Types of Market, Market structure formed on the basis of perfect and imperfect competition, Price and output determination under Perfect Competition, Price and Output determination under monopoly, Discrimination Monopoly- Features, Price and Output determination under discriminating Monopoly, Price and Output determination under Monopolistic Competition, Oligopoly	15
Unit-5	Chhattisgarh Economy- Price Control- Price ceiling and price floor, Study of Chhattisgarh economy, Prospects of economy development, Economic Survey of Chhattisgarh	15

Case study/Skill based activities/field work/project work etc. (for extra credit)

	1	Examine how different economic systems function and evaluate implications of various economic decisions;
Learning	2	Examine how consumers try to maximize their satisfaction by spending on different goods;
Out comes:	3	Analyze the relationship between inputs used in production and the resulting outputs and costs;
	4	Analyze and interpret market mechanism and behaviour of firms and response of firms to different market situations
	5	Examine various facets of pricing under different market situations.

#### Suggested Readings:

- 1. Ahuja, H. L. (2019). Theory of Micro Economics. New Delhi: Sultan Chand Publishing House.
- 2. Koutsoyannis, A. (1975). Modern Microeconomics. London: Palgrave Macmillan.
- 3. Chaturvedi, D. D., & Gupta, S. L. (2010). Business Economics Theory & Applications. New Delhi: International Book House Pvt. Ltd.
- 4. Kennedy, M. J. (2010). Micro Economics: Mumbai: Himalaya Publishing House.

#### Websites:

- 1. Relevant study material of ICAI: www.icai.org.
- 2. https://www.icsi.edu/media/website/Business%20Economic
- 3. https://www.businesseconomics.com/

### Name and Signature of Member

Chairman	HOD PG Department	HOD Us Department	Subject Expert
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# SHAHEED NANDKUMAR PATEL VISHWAVIDYALAYA, RAIGARH (C.G.)

(A State University Established Under Chhattisgarh Vishwavidyalaya Adhiniyam, 1973)

# Scheme and Syllabus

Of

### **Bachelor of Science**

Year- First

W.E.F. Session :- 2023-24

Syllabus Approved by the Central Board of Studies

# Central Board of Studies Foundation Course Paper-II English Language for Under Graduate Students

Programme Outcomes for English Language B.A/B.Sc/B.Com I, II, III

The programme enables a student to get acquainted

- With the rich cultural heritage and develops patriotic feelings through the works of Indian authors & poets.
- To get exposure of the usage of grammar according to contemporary times.
- To have an exposure about the literary genre with the help of the authors & poets across the globe.

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· To develop an appreciation for English Language & Communication Skills.

Dr. Suchama Michra

# Learning Outcomes (English Language) B.A/B.Sc/B.Com - I, II,III

The learning outcomes are as follows:

- 1. To strengthen the linguistic skills -Listening, Speaking, Reading and Writing.
- To refine the way of thinking and speaking which would lead them to have mighty ideas in day to day life.

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- 3. To improve students speaking ability in English both in terms of fluency and comprehensibility.
- 4. To enhance practical use of English in day-to-day life.
- 5. To enrich the vocabulary of the students.

Da. Sushama Mushas

# Programme Specific Outcomes FC\_ Paper-II (English Language) B.A/B.Sc/B.Com - I, II,III

The Programme Specific outcomes are as follows:

1. To develop abilities of the students as a critical reader and writer.

( & copyrm)

- 2. To develop the ability of public interaction and speaking.
- 3. To develop self awareness about English language.
- 4. To develop critical thinking .

To give a practice in writing, drafting of English assignments.

Da. sushame Mishirs

# बी.ए./ बी.एस-सी./ बी.कॉम./ बी.एच.एस.सी. भाग -एक (आधार पाठ्यक्रम) प्रथम प्रश्नपत्र हिंदी भाषा

कोड....

पूर्णांक 75

क्रेडिट 05

# पाठ्यक्रमका उद्देश्य:-

1.हिंदी भाषाके प्रयोजनात्मक स्वरूप का सामान्य ज्ञान प्रदान करना।

- 2.कंप्यूटर में हिंदी भाषा के प्रयोग की आवश्यकता के अनुरूप कंप्यूटर की कार्य प्रणाली की आरंभिक जानकारी से अवगत होने के लिए प्रेरित करना।
- 3.हिंदी व्याकरण की बुनियादी ज्ञान संप्रेषण कौशल तथा भाषायी दक्षता से अवगत कराना।
- साहित्य और समाज को समझने की दिशा में रुझान उत्पन्न करना।

### पाठ्य विषय:-

इकाई 1. (क) पल्लवन, पत्राचार, अनुवाद	अंक 15
(ख) एक टोकरी भर मिही: माधवराव सप्रे	18 कालखंड
बड़े भाई साहब : प्रेमचंद	
इकाई 2. (क) संक्षेपण, हिंदी में संक्षिप्तिकरण, हिंदी-अपठित गद्यांश, पारिभाषिक	अंक 15
शब्दावली, हिंदी में पदनाम, मुहावरे एवंलोकोक्तियाँ	18 कालखंड
(ख) जागो फिर एक बार: सूर्यकांत त्रिपाठी 'निराला'	
जन्मदिन ('मिर्टी से कहूँगाधन्यवाद' संग्रह से):एकांत श्रीवास्तव	
इकाई 3. (क) शब्द-शुद्धि, वाक्य-शुद्धि, शब्द-ज्ञान- पर्यायवाची शब्द, विलोम	अंक 15
शब्द, अनेकार्थी-शब्द, समश्रुत शब्द, अनेक शब्दों के लिए एक	18 कालखंड
शब्द	
(ख) भोलाराम का जीव : हरिशंकर परसाई	
जीप पर सवार इल्लियां: शरद जोशी	
इकाई 4.(क) मानक भाषा का अर्थ, मानक हिंदी भाषाका अर्थ, स्वरूप,	अंक 15

23/5/23 July 3/3/2/29

		Part A: Intr	oduction			
Teo Are	ogram: Certificate urse in Microbial chniques and chaegoniate ntification	Class: B.Sc.I Year	Year: 2022	Session:2022-2023		
1.	Course Code		BOT-1T			
2.	Course Title	Microbial Diversity and Plant Pathology				
3.	Course Type	Theory				
4.	Pre-requisite (if any)	NO				
5.	Course Learning. Outcomes (CLO)	<ul> <li>pathology</li> <li>Learn microbial techniques</li> <li>Learn life cycles of</li> <li>Understand etiology</li> <li>Apply their knowled diseases</li> </ul>	ruses, Bacteria, Phy nniques which will be selected genera of dif of plant diseases	cology, Mycology and Plant e beneficial for agriculture and fferent groups lds to eradicate or avoid the		
6.	Credit Value	Theory: 4				
7.	Total Marks	Max. Marks: 50		Iin Passing Marks: 17		

	Part B: Content of the Course				
Total Periods: 60					
Unit	Topics	No. ofPeriod			
I	Microbial Techniques & instrumentation: Microscopy – Light, phase contrast, scanning and transmission electron microscopy, staining techniques for light microscopy. Common equipment of microbiology lab and principle of their working – autoclave, oven, laminar air flow, centrifuge, colorimetry, spectrophotometry, electrophoresis, immobilization methods, fermentation and fermenters.	12			
II	Microbial world: Cell structure of Eukaryotic and prokaryotic cells, Gram positive and Gram-negative bacteria, Structure of bacteria; Bacterial Growth curve, factors affecting growth of microbes; Sporulation, reproduction, recombination in bacteria. Viruses, general characteristics, Structure of viruses, Bacteriophages and TMV; Lytic and Lysogenic cycles, viroid, Prions & mycoplasma, phytoplasma, actinomycetes and their economic uses.  Applied Microbiology: Food fermentations and food produced by microbes, Production of antibiotics, enzymes, alcoholic beverages, Lactic acid and Acetic acid production. Antigen, antibody and production of monoclonal antibodies (Hybridoma techniques).	12			
ш	Phycology: General characteristic features, classification and range of thallus organization. Classification and life cycle of <i>-Volvox</i> , <i>Oedogonium</i> , <i>Chara</i> , <i>Vaucheria</i> , <i>Ectocarpus</i> and <i>Polysiphonia</i> . Economic importance of algae - Role of algae in soil fertility, algae as biofertilizer, blue green algae and nitrogen economy of soil; algae as biofuel	12			

		Part A: Intro	oduction		
tech Arc	gram:Certificate irse in Microbial hniques and chaegoniate ntification	Class: B.Sc. I Year	Year: 2022	Session:2022-2023	
1.	Course Code		BOT-2T		
2.	Course Title	Archegoniateae and Plant Architecture			
3.	Course Type	Theory			
4. Pre-requisite (if any)		NO			
5.	Course Learning. Outcomes (CLO)	Pteridophytes and Gy	eral characteristics mnosperms ships with the help	and affinities of Bryophytes of Palaeobotanical studies	
6.	Credit Value		Theory: 4		
7.	Total Marks	Max. Marks: 50		Iin Passing Marks: 17	

	Part B: Content of the Course	
	Total Periods: 60	
Unit	Topics	No. ofPeriod
I	Introduction to Archegoniates & Bryophytes: Unique features of archegoniates, Bryophytes: General characteristic features and Affinities, adaptations to land habit, Range of thallus organization. Classification (up to family), morphology, anatomy and reproduction of Riccia, Marchantia, Anthoceros and Sphagnum. (Developmental details not to be included). Economic importance of bryophytes.	12
П	Pteridophytes: General characteristic features and affinities, Classification (up to family) with examples, Heterospory and seed habit, stelar evolution, economic importance of Pteridophytes, Morphology, anatomy and life cycle of Psilotum, Lycopodium, Selaginella, Equisetum, Pteris and Marselia.	12
ш	<b>Gymnosperms:</b> Classification and distribution of gymnosperms; Salient features of Cycadales, Ginkgoales, Coniferales and Gnetales, their examples, structure and reproduction; economic importance, Morphology, anatomy and life cycle of Cycas, Pinusand Ephedra.	12
IV	Palaeobotany: General account, Geological time scale; Brief account of process of fossilization & types of fossils and their study techniques; Fossil plants: Rhynia, Williamsonia, Cycadeoidea. Contribution of Prof. BirbalSahni	12
V	Angiosperm Morphology (Stem, Roots, Leaves, Flowers and Inflorescence: Morphology and modifications of root; Stem, leaf and bud. Types of inflorescences; flowers, flower parts, fruits and types of placentation; Definition	12

June 3.6.22

Pro	gramme: Certificate		Class B.ScI	Year: 2022	Session: 2022-23	
110	gramme. Certificate		Class B.Sc. 1	1011.2022	Dession: 2022 20	
1.	Course Code			BOT-1P		
2.	Course Title	Microbial Tech	iniques and Arch	niques and Archegoniate identification		
3.	Course Type		Practical			
Pre-requisite (if any)				No		
<ul> <li>Under working</li> <li>Development</li> <li>Agricult</li> <li>Practicult</li> <li>&amp; Patl</li> <li>learn</li> <li>Symbol</li> </ul>			mpletion of the course the students will be able to: stand the instruments, techniques and good lab practices for ng in a microbiology laboratory. op skills for identifying microbes and using them for Industrial, ulture and Environment purposes. cal skills in the field and laboratory experiments in Microbiology hology. to identify Algae, Lichens and plant pathogens along with their iotic and Parasitic associations. nitiate his own Plant & Seed Diagnostic Clinic			
Can start own     Can start own		t own enterprise o	wn enterprise on microbial products 2			
0.	Total Marks	Max. Marks: 5		Min. Passing Marks		
			B : Content of the			
		То	otal No. of Periods	- 30		
Tentative Practical List		Topic * (Minis				
	List	syllabus. 20% for spotti equally in each INSTRUMEN' laboratory pract 2. Principles an autoclave, centr 3. Buffer prepar 4. Cleaning and 5. Preparation of 6. Inoculation a BACTERIAL	ng, 10% each founit.)  TS & TECHN ices. d application of Lifuge, Laminar aireation & titration Sterilization of glof media-PDA and culturing of Fu	r viva and sessional IQUES: 1. Laboral aboratory instrument flow, filtration unit, assware I NAM ngi and bacteria ON: 1. Isolation of ba	s-microscope, incubator shaker, pH meter.	

Der James 5.22

Part A: Introduction								
Program: Certificate Course		Class: B.Sc. I Year	Year: 2022	Session:2022-23				
1.	Course Code		CHEM-1T					
2.	Course Title Inorganic and Physical Chemistry							
Course Type     Pre-requisite     (if any)			Theory					
		To Study this course our students must have had the subject chemistry is class +2 or equivalent						
5.	Course Learning. Outcomes (CLO)	properties of elements	eept of atomic stru al bonding in ionic ar for s and p-block ele onding of compounds urgical extraction of a hematics and Compu	cture and the periodic nd covalent compounds ments in the periodic of the noble gases metals. ter for Chemists.				
6.	Credit Value		Theory: 4					
7.	Total Marks	Max. Marks: 50	Min. P	assing Marks: 17				

	Part B: Content of the Course				
Total No. of Lecturers: 90					
Unit	Topics	No. of Lectures			
I	<ul> <li>Atomic structure: Bohr's theory and its limitation, General idea of deBroglie matter-waves, Heisenberg uncertainty principle, Schrödinger wave equation, significance of Ψ and Ψ², radial &amp; angular wave functions and probability distribution curves, quantum numbers, Atomicorbital and shapes of s, p, d orbitals, Aufbau and Pauli exclusion principles, Hund's Multiplicity rule, electronic configuration of the elements.</li> <li>Periodic properties: Detailed discussion of the following periodic properties of the elements, with reference to s- and p- block. Trends in periodic table and applications in predicting and explaining the chemical behavior.</li> <li>a. Atomic and ionic radii,</li> <li>b. Ionization enthalpy,</li> <li>c. Electron gain enthalpy,</li> <li>d. Electronegativity, Pauling's, Mulliken's, Allred Rochow's scales. Effective nuclear charge, shielding or screening effect, Slater rules, variation of effective nuclear charge in periodic table.</li> </ul>	15			
п	Chemical bonding- I: Ionic bond: Ionic Solids - Ionic structures, radius ratio & co-ordination number, limitation of radius ratio rule, lattice defects, semiconductors, lattice energy Born-Haber cycle, Solvation energy and solubility of ionic solids, polarizing power & polarizability of ions, Fajan's rule, Ionic character in covalent compounds: Bond moment and dipole	15			

		Part A: Introduction	n			
Progr	am: Certificate Course	Class: B.Sc. I Year	Year: 2022	Session:2022-23		
1. Course Code		CHEM-2T				
2.	Course Title	Organic and	Physical Chemistry			
3.	Course Type		Theory			
4.	Pre-requisite (if any)	To Study this course our stud class +2 or equivalent	To Study this course our students must have had the subject chemistry			
5.	Course Learning. Outcomes (CLO)		nentals of physical or bon compounds and Alkynes and aromatic Hydroc model of gases and ation from ideal beh of corresponding s of liquid state as	ganic chemistry carbons its properties, Behavio avior, equation of state states and molecula nd colloids & surfac		
6.	Credit Value		Theory: 4			
7.	Total Marks	Max. Marks: 50	Min D	ssing Marks: 17		

	Part B: Content of the Course	
	Total No. of Lecturers: 90	
Unit	Topics	No. of Lectures
I	Basics of organic chemistry: Influence of hybridization on bond properties (as applicable to ethane, ethene, and ethyne). Application of inductive effect (a) Basicity of amines (b) Acidity of carboxylic acids (c) Stability of carbocations. Resonance or Mesomeric effect, application to (a) acidity of phenol, and (b) acidity of carboxylic acids. Hyper conjugation and its application to stability of carbocations, Free radicals and alkenes. Reactive intermediates: carbanions, carbenes, Nitrene, Basic concept of S <sub>N</sub> 1, S <sub>N</sub> 2, E1, E2, E1cb reactions and Neighboring group Participation (NGP). Electrophiles and Nucleophiles; Nucleophilicity and basicity.	15
П	Introduction to stereochemistry: Optical Isomerism: Optical Activity, Specific Rotation, Chirality/Asymmetry, Enantiomers, Molecules with two or more chiral-centres, Diastereoisomers, meso compounds, Relative and absolute configuration: Fischer, Newman and Sawhorse Projection formulae and their interconversions; Erythrose and threose, D/L, d/l system of nomenclature, Cahn-Ingold-Prelog system of nomenclature (C.I.P rules),	15



		Part A: Introduction	Part A: Introduction			
Program: Certificate Course		Class: B.Sc. I Year	Year: 2022	Session:2022-23		
1.	Course Code		CHEM-1P			
2.	Course Title		Lab. 1			
3.	Course Type		Practical			
4. Pre-requisite (if any)		To Study this course our students must have had the subject chemistry class +2 or equivalent				
5.	Course Learning. Outcomes (CLO)	At the end of this course, the aspects of Chemistry  To analyse the given (basic radicals).  Titrations Qualitative Analysis Surface tension measu Viscosity measuremen Chemical Kinetics	mixture for anions (a rements.	le to learn the following		
6.	Credit Value		Practical: 2			
7.	Total Marks	Max. Marks: 50	Min Pa	ssing Marks: 17		

	Part B: Content of the Course	
	Total No. of Lecturers: 30	
	LABATORY COURSE	No. of Lecture
Tentative list of Practical	A. Inorganic chemistry  Semi-micro qualitative analysis (using H <sub>2</sub> S or other methods) of mixtures - not more than four ionic species (two anions and two cations, excluding interfering, insoluble salts) out of the following:  Cations: NH <sub>4</sub> <sup>+</sup> , Pb <sup>2+</sup> , Bi <sup>3+</sup> , Cu <sup>2+</sup> , Cd <sup>2+</sup> , Fe <sup>3+</sup> , Al <sup>3+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , Mn <sup>2+</sup> , Zn <sup>2+</sup> , Ba <sup>2+</sup> , Sr <sup>2+</sup> , Ca <sup>2+</sup> , Na <sup>+</sup> Anions: CO <sub>3</sub> <sup>2-</sup> , S <sup>2-</sup> , SO <sub>3</sub> <sup>2-</sup> , NO <sub>2</sub> <sup>-</sup> , CH <sub>3</sub> COO <sup>-</sup> , Cl <sup>-</sup> , Br <sup>-</sup> , l <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> (Spot tests may be carried out wherever feasible)	
	B. Acid-Base Titrations  Standardization of sodium hydroxide by oxalic acid solution.  Determination of strength of HCl solution using sodium hydroxide as intermediate.  Estimation of carbonate and hydroxide present together in mixture.  Estimation of carbonate and bicarbonate present together in a mixture.  Estimation of free alkali present in different soaps/detergents	10



_		Part A: Introd	uction	Session:2022-2023
P	rogram: Certificate Course	Class: B. A. / B.Sc. Part I		
1	Course Code		Paper - MATH	- 11
1	Course Title	Calculus		
2		Theory		
3	Course Type	1110017	No	
4	Pre-requisite ( if			
4 Pre-requisite ( if any)  5 Course Learning Outcome (CLO)		understand differentiabili  Understand theorems.  Draw curves i  Understand from one va  Inter-relations triple integral  Realize imp	the geometrical ty.  The consequences in cartesian and proceptual variable to several ship amongst the formulations.  The content of Green other branches	nine the continuity and
6	Credit Value		4	I' ' Dessing Marks
7	m 11/	Maximum Marks:	50 N	Minimum Passing Marks:

	Part B: Content of the Course	
10404	Total Periods: 60	
Unit	Topics	No. of Periods
I	Sequences, Continuity and Differentiability: Notion of convergence of sequences and series of real numbers, E-S definition of limit and continuity of a real valued function; Differentiability and its geometrical interpretation; Rolle's theorem, Lagrange's mean value theorem, Cauchy's mean value theorem and their geometrical interpretations, Darboux's	12
II	Expansion of Functions: Successive differentiation and Leibnitz theorem, Maclaurin's and Taylor's theorems for expansion of a function, Taylor's theorem in finite form with Lagrange, Cauchy and Roche-Schlömilch forms of remainder.	12
111	Curvature, Asymptotes and Curve Tracing: Curvature; Asymptotes of general algebraic curves, parallel asymptotes, Asymptotes parallel to axes; symmetry, concavity and convexity, points of inflexion, Tangents at origin, Multiple points, Position and nature of double points; Tracing of	12

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		Part A: Introduction
F	Program: Certificate Course	Class: B. A. / B.Sc. Year: 2022 Session:2022-2023 Part I
1	Course Code	Paper – MATH-2T
2	Course Title	Algebra
3	Course Type	Theory
4	Pre-requisite ( if any)	No
5	Course Learning Outcome (CLO)	<ul> <li>This Course will enable the students to: <ul> <li>Employ De Moivre's theorem in a number of applications to solve numerical problems.</li> <li>Learn about the fundamental concepts of groups, subgroups, normal subgroups, isomorphism theorems, cyclic and permutation groups.</li> <li>Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix, using rank.</li> <li>Find eigen values and corresponding eigen vectors for a square matrix.</li> <li>Understand real vector spaces, subspaces, basis, dimension and their properties.</li> </ul> </li> </ul>
6	Credit Value	4
7	Total Marks	Maximum Marks : 50 Minimum Passing Marks :

Unit	Topics	No. of Period
I	Set Theory and Theory of Equations: Sets, Relations, Equivalence relations, Equivalence classes; Finite, countable and uncountable sets; The division algorithm, Divisibility and the Euclidean algorithm, Modular arithmetic and basic properties of congruence's; Elementary theorems on the roots of polynomial equations, Imaginary roots, The fundamental theorem of algebra (statement only); The nth roots of unity, De Moivre's theorem for integer and rational indices and its applications.	12
11	Groups, Subgroups, Normal Subgroups and Isomorphism Theorems: Definition and properties of a group, Abelian groups, Examples of groups including $D_n$ (dihedral groups), $Q_8$	12

			Part A: Intro	duction		
Program: Certificate Course		Class: B.A./ B.Sc. I Year	Year: 2022	Session: 2022-2023		
1 Course Code				MATH-1P (I)		
2	Course Title	I - L	ab 01 - Calculus and A	b 01 - Calculus and Algebra		
3	Course Type			Practical		
4	Pre-requisite (if any)		No			
5	Course Learning Outcomes (CLO)	At th	Mathematics Paper 1 and 2 by using FOSS softwares.		vare (FOSS) tools for computer Algebra theories studied in FOSS softwares.	
6	Credit Value			2		
7	Total Marks		Max. Marks: 50		Min Passing Marks: 17	

	Part B: Content of the Course
	Total Periods: 30
Tentative Practical List	Mathematics practical with Free and Open Source Software (FOSS) tools for computer programs, such as GeoGebra/Maxima/Scilab/ Octave /Python/R.  Course Objectives:
*	<ul> <li>To learn Free and Open Source Software (FOSS) tools for computerprogramming</li> <li>Acquire knowledge of applications of algebra and calculus through FOSS</li> </ul>
	List of Practicals: (At least 15 practicals)
	<ul> <li>Programs to illustrate left hand and right hand limits fo discontinuous functions.</li> </ul>
	Program to illustrate continuity of a function
	Program to illustrate differentiability of a function
	Program to verify Rolle's theorem
	Program to verify Lagrange's theorem
	<ul> <li>Programs to verify Cauchy's mean value theorem and findin Taylor's theorem for a given function.</li> </ul>
	Program to illustrate nth derivative without Leibnitz rule.

			Part A: Intro	duction	2002 2003
rog	gram: Certificate Co	urse	Class: B.A./B.Sc. I Year	Year: 2022	Session: 2022-2023
1	1 Course Code		MATH-1P (II)		
2	Course Title	II -	Project 01 - History of l	Mathematician	
3	Course Type			Project	
4	Pre-requisite (if any)			NIL	
5	Course Learning Outcomes (CLO)		already studied by various places.  Know the rich intell  Develop an apprectowards mathemat anxiety related the	understanding seeing how it lectual heritage lation of mathe- ics increasing subject.	of the mathematics they hare was developed over time and in of the country.  ematics and build positive attitud student's motivation decreasing elopment of mathematics in ancient inistory.
6	Credit Value		Max. Marks:		Min Passing Marks: 17
7			Max. Marks:	30	

	Part B: Content of the Course Total Periods: 30
Project List	An elective course designed to acquire special / advance knowledge such as supplement study / support study to a project work and a candidate will study such a course on his own with an advisory support a teacher / faculty member.
	Project  Contributions and biographies of Indian Mathematicians- Bodhayar Apasthambh, Katyayan and Mahaveeracharya, Brahmagupta, and Bhaskaracharya in special context of Leelavati and contributions mathematicians involved in context of the paper of calculus and algebra (10 Mathematicians)

			Part A: Int	roduction				
Pro	gram: Certificate Co	urse	Class: B.Sc.	Year: First	Session: 2022-2023			
1	Course Code		PHY – 1T					
2	Course Title		MECHANICS					
3	Course Type	1		Theory				
4	Pre-requisite (if any)		No					
Outcomes (CLO)			used in physics.  Get an idea of d laws.  Get an idea about matter like elastic Understand vario system.	ifferent types of t rotational motion ity and viscosity. ous types of osci t Frame of refere	and differential equations motions and conservation and various properties of illatory motion and GPS ence and special theory of entire syllabus.			
6	Credit Value			Theory :	4			
7	Total Marks		Max. Marks: 5	50	Min Passing Marks: 17			

	Part B: Content of the Course					
Total Periods: 60						
Unit	Topic	Number of Periods				
I	Vectors: Vector algebra, Derivatives of a vector with respect to a parameter, Scalar and vector products of two, three and four vectors, Gradient, divergence and curl of vectors fields, Polar and Axial vectors.  Ordinary Differential Equations: 1st order homogeneous differential equations, exact and non-exact differential equations, 2nd order homogeneous and nonhomogeneous differential equations with constant coefficients (Operator Method Only).	12				
II	Laws of Motion: Review of Newton's Laws of motion. Dynamics of a system of particles, Concept of Centre of Mass, determination of center of mass for discrete and continuous systems having cylindrical and spherical symmetry.  Work and Energy: Motion of rocket, Work-Energy theorem for conservative forces, Force as a gradient of Potential Energy, Conservation of momentum	12				



			Part A: In	troduction				
Pro	gram: Certificate Co	ourse	Class: B.Sc.	Year: First	Session: 2022-2023			
1	Course Code		PHY – 2T					
2	Course Title		ELECTRICITY AND MAGNETISM					
3	Course Type			Theory				
4	Pre-requisite (if any)			No				
5	Course Learning Outcomes (CLO)	After	Get knowledge a electrostatic and Get idea about ele Get idea about I application in AC Get idea about M To get idea about equation and Elec-	Magnetostatics. ectric fields, force a Dielectric and Elec C circuits. agnetic properties of	alysis and able to apply in and potential. tric currents and also the of material. Induction and Maxwell's propagation.			
5	Credit Value			Theory: 4	The state of the s			
7	Total Marks		Max. Marks:		Min Passing Marks: 17			

	Part B: Content of the Course						
	Total Periods: 60						
Unit	Topic	Number of Periods					
I	Vector Analysis: Vector Integration, Line, surface and volume integrals of Vector fields, Gauss-divergence theorem and Stoke's theorem of vectors and its application in electrostatics and magnetostatics.	12					
II	Electrostatics: Electrostatic Field, electric flux, Gauss's theorem of electrostatics, Applications of Gauss theorem- Electric field due to point charge, infinite line of charge, uniformly charged spherical shell and solid sphere, plane charged sheet, charged conductor.	12					
	Electric potential as line integral of electric field, potential due to a point charge, electric dipole, uniformly charged spherical shell and solid sphere, Calculation of electric field from potential, Capacitance of an isolated spherical conductor, Parallel plate, spherical and cylindrical condenser, Energy per unit volume in electrostatic field.						

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P	rogram: Certificate	Course	Part A: In	ntroduction	
			Class: B.Sc.	Year: First	Session: 2022-2023
1	Course Code				2022-2023
2	Course Title		LAR 1. M.	PHY 1P	
3	Course Type		1. IVIC	echanics, Electricit	y and Magnetism
4	Pre-requisite (if any)	+		Practical	
5	Course Learning			NO	
	Outcomes (CLO)	Expecte	ed Outcomes:		
C	redit Value	• Stu	dents will be abl	iscosity.	armonic motion, elasticity applications of basic eory in real world.
To	otal Marks			Practical: 2	
	warks	M	ax. Marks: 50		Passing Marks: 17

T	Part B: Content of the Course
<b>Tentative</b>	At least 14 eyes:
Practical	experiments from the C. I.
	Measurements of length (or diameter) using vernier caliper, screw gauge  2. To study at
List	and travelling missions (or diameter) using vernier calina
	and the camper, screw gauge
	2. To study the random error in observations.
- 1	citor in observations.

Cl Je

		Pa	rt A: Introd	uction				
Pro	gram:Certificate Cou	rse Class:B.	Sc. 1 st Year	Year:2022	Session:2022-2023			
1	Course Code			ZOOL-1T				
2	2 Course Title Animal Diversity: Non-Chordata and Chordata, Comparative Anatomy and Physiology of Non-chordates							
3	Course Type	Theory	Пеогу					
4	Pre-requisite (if any)	No						
5	Course Learning Outcomes (CLO)	Understand of animals     Get the kn animals in     Understand	out the import dea of evolution d the variou of different phowledge abou human welfar and the important	rtance of syster on of non-chordat s morphological syla, t economic,ecolo re. nt parasites andth	nic,taxonomy and phylogeny to get a			
6	Credit Value	4						
7	Total Marks	Max. Marks: 50	N	in Passing Mark	s:17			

	Part B: Content of the Course				
Total Lectures: 60					
Unit	Topics	No. of Lectures			
I	Taxonomy, Protozoa, Porifera Taxonomy- Elementary knowledge of Zoological Nomenclature and International Code. Classification of Animal Kingdom upto Phylum of acoelomate and coelomate non- chordates according to Parker and Haswell7 <sup>th</sup> edition. Protozoa- Phylum Protozoa: General characters of the phylum and classification up to order with characters and suitable examples. Structure, life history and pathogenicity of malaria parasite (Plasmodium vivax). Protozoa and disease. Porifera- Phylum Porifera: General characters of the phylum and classification up to order with characters and suitable examples. Type study of Sycon.	12			
II	Coelenterata, Platyhelminthes, Nemathelminthes: Coelenterata- PhylumCoelenterata: General characters of the phylum and classification up to order with characters and suitable examples. Type Study of Obelia.  Platyhelminthes - Phylum Platyhelminthes: General characters of the phylum and classification up to order with characters and suitable examples. Type Studyof Liverfluke.				
a Contract of the St	Nemathelminthes- PhylumNemathelminthes: General characters of the phylum and classification up to order with characters and suitable examples. Pathogenic nematodes and diseases.	12			
Ш	Annelida, Arthropoda, Mollusca:  Annelida- Phylum Annelida: General Characters of the phylum and classification up to order with characters and suitable examples. Types study of Earthworm (Pheretima).  Arthropoda - Phylum Arthropoda: General Characters of the phylum and classification up to order with characters and suitable examples. Type study of Prawn. Insects as a vector of human disease.  Mollusca - Phylum Mollusca: General characters of the phylum and classification up to order with characters and suitable examples. Type study of Pila.	12			



			Part A	: Introd	luction	
Proi	gram: Certificate Co	urse	Class: B.Sc. I	Year	Year: 2022	Session:2022-2023
1	Course Code		-		ZOOL-2T	
2	Course Title	Cell Biology, Histology and Comparative Anatomy & Physiology of Chordates				
3	Course Type	Theory				
4		To study this course, a student must have/had the subject Biology in class 12 <sup>th</sup> .				
5	Course Learning Outcomes (CLO)	•	Understand the in Understand the in Understand the and about any in Develop an unstructure, function Understand the diverse habitats 5. Develop an structure, function in the Understand t	basic s ntricate tissues, nalfuncti nderstandon and c e morph underst	cellular mechanis how tissues are ioning which may ding of the evo development. hological, anator anding of the evo	ning of the cell and cell organelles and
6	Credit Value	Theor	The second secon			
7	Total Marks	Max.	Marks: 50	1	Min Passing Ma	rks : 17

	Part B: Content of the Course	
	Total Lecturer: 60	
Unit	Topics	No. of Lectures
1	Prokaryotic and Eukaryotic cells: General structure of prokaryotes, bacteria, archaea and eukaryotes. Ultra structure and function of endoplasmic reticulum, ribosomes, Golgi apparatus, lysosome, Mitochondria, nuclear apparatus.  Cell membrane and transport mechanism: Structure, composition, models and function. Fluid mosaic model Junctional complexes, membrane receptor modifications: microvilli, desmosomes and plasmodesmata.	12
п	Cell cycle, cell signaling and cell culturing: Cell cycle, cell division – mitosis and meiosis. Cell division check points and their regulation. Role of growth factors. Programmed cell death (Apoptosis).  Cell regulation and cell signaling: Signaling molecules and their receptors. Functions of cell surface receptors. Regulation of signaling pathways.  Cell culture: Types of cell culture – monolayer and suspension culture. Types of culture media. Basic characteristics of tissue culture media. Tissue culture and engineering.	12
III	Structure and functional significance of animal tissues: Introduction to tissues. Epithelial tissue: types, structure and characteristics. Exocrine and endocrine glands: type and structure. Structure and function of loose, dense and adipose tissue. Muscular tissue: Ultra structure of smooth, skeletal and cardiac muscles. Muscle contraction. Membrane of the brain and spinal cord.	11
IV	Structure and function of integument, skeletal, digestive, circulatory system:  Integument: Structure of integument from fish to mammals. Function of integument. Epidermal and dermal derivatives of integument and their functional significance.  Skeletal system: Comparative account of pelvic and pectoral girdles from fishes (cartilaginous and bony) to mammals.  Digestive system: Dentition in mammals. Comparative study of alimentary canal and digestive glands from fish to mammal. Physiology of digestion in mammal.	13

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			Part A: Intro	duction			
Pro	gram: Certificate Cou	urse	Class: B.Sc. I Year	Year: 2022	Session:2022-2023		
1	Course Code	T		ZOOL-1	P		
2	Course Title		Lab Course - 1				
3	Course Type		Practical				
4	Pre-requisite (if any)			No			
5	Course Learning Outcomes (CLO)	:	invertebrate and inve Capable to enumerate Capable to explore and	mal diversity in tebrates. biology of inverted tomy of animas. tological, histological	brates.  gical and osteological configuration for		
6	Credit Value	2		M. B. 1. M.	1 17		
7	Total Marks	Max.	Marks: 50	Min Passing Ma	arks: 17		

	Part B: Content of the Course		
Total classes: 30			
	Content	No. o classes	
The p be rec	ractical's work will be based on theory syllabus and the students will uired to show the knowledge of the following – ady of museum specimens representing to invertebrate phyla.	30	
Pa Obeli (mira M	ady of permanent slides: ramecium, Euglena, T. S. Sycon, Sponge Spicules, Sponge gemmule, a colony, Obelia medusa, Ephyra larva, Fasciola larval forms cidium, Radia, Cercaria, etacercaria), Trochophore larva, Zoea larva, Bipinnaria larva. ssection/ demonstration/ clay model of –		
b) c) d) 4. E:	Phretima: Digestive system, Reproductive system, Nervous system Palaemon: Appendages, Nervous system Periplaneta: Mouth parts, Digestive system Pila: Nervous system kercise based on cytology: squash preparation from onion root tip and		
5. St to ma 6. St frog,	of cell division. udy of museum specimens representing the chordata from cyclostomes ammals. udy of permanent slides of chordates – Fish skin, scales, V. S. Skin of reptile, bird, ammal, T.S. liver, pancreas, testes, ovary of frog and mammal.		
7. O 8. To a b c	steology: Study of girdles of amphibian, reptile, bird and mammal. emporary mounting: ) Palaemon: Statocyst ) Pila: Ctenidium, osphradium ) Pheretima: Septal nephridia ) Fish scale: Placoid, Cycloid, Ctenoid tercise based on blood: blood group, blood pressure measure Field visit report: Photography & identification of any five local		

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