

**Syllabus for
Open Elective
Under Choice Based Credit System
Academic Session:
w.e.f. 2023 onwards**



for
All Constituent/Affiliated Colleges Under
Chaudhary Bansi Lal University
Bhiwani, Haryana -127021



CHAUDHARYBANSILAL UNIVERSITY, BHIWANI

(A State University established by an Act No.25 of 2014)

Open Electives Lists for Batch- 2023 onwards

Sr. No	Name of Course	Course Code	Course Offered by the Department	Contact Details/ Email id	Which Semester Offered
1	Vedic Mathematics	18-MTH-100	Mathematics	Chairperson.maths@cblu.ac.in	I, II
2	Creative Writing	ENG-100	English	incharge.english@cblu.ac.in	I, II, III, IV
3	Biodiversity of Living Organisms	18-ZOO-100	Zoology	hodzology@cblu.ac.in	I, II, III, IV
4	Establishment & Management of New Business	18-MBA-100	Management	hodmanagement@cblu.ac.in	I, II,
5	Yoga Health & Nutrition	MPE-100	Ph. Education	chairperson.phyedu@cblu.ac.in	I, II, III, IV
6	Environment & Energy Management	18-EEM-100	Biotech	hodbiotech@cblu.ac.in	II & IV
7	Swatch Bharat	SB-100	Ph. Education	chairperson.phyedu@cblu.ac.in	I, III
8	Water & Soil Analysis	19-CHEM-100	Chemistry	chemistry@cblu.ac.in	I
9	Data Analysis Using Excel & SPSS	19-CS-100	ICT& PGDCA	hod.ict@cblu.ac.in	I, III
10	Psychology for Everyday Living	19-PSY-408 OEC	Psychology	psychology@cblu.ac.in	I, II, III, IV
11	General Geography of India	19-GEO-209	Geography	geographydepartmentcblu@gmail.com	II
12	Hindi Sanchar Kaushal	HND-100	Hindi	hindicblu@gmail.com	I, II, III, IV
13	Character Building & Personality Development	18SSUN-100	Hindi	hindicblu@gmail.com	I, II, III, IV
14	Health And Disease Control	19-HDC-100	Microbiology	hodmicrobio@cblu.ac.in	I & III
15	Textile & Food Chemistry	20-TFC-100	Chemistry	chemistry@cblu.ac.in	III
16	Elements of Nano-Science	19-PHYOE-208	Physics	chairperson.physics@cblu.ac.in	II
17	Medicinal Plants in Everyday Life	20-BOT-100	Botany	Incharge.botany@cblu.ac.in	I & III
18	Basic of Climatology	19-GEO-312	Geography	geographydepartmentcblu@gmail.com	III
19	Radiation Effects	19-PHYOE-308	Physics	chairperson.physics@cblu.ac.in	III
20	General Geography of World	19-GEO-412	Geography	geographydepartmentcblu@gmail.com	IV
21	Statistical Techniques	22MTH-200	Mathematics	Chairperson.maths@cblu.ac.in	I, II
22	Contemporary Issues of Indian Economy	23ECO207	Economics	hodeconomics@cblu.ac.in	II
23	Indian Constitution: An Introduction	23POL100	Political Science	incharge.polsc@cblu.ac.in	I, II

Rules & Regulations

1. Open Elective papers will be offered in any two semesters of the post-graduate program as passed by their respective PGBOS.
2. Students must be encouraged to opt for the open elective subjects as per their choice
3. Students cannot repeat the same course.
4. The department cannot offer their open elective subjects to their own students, Students will be advised to choose the other departments' open elective subjects.
5. The Open Elective Cannot be changed after registration in the same semester.
6. The Colleges/department will strictly follow the guidelines.
7. The colleges/department cannot offer any course which is not offered in the respective semester.
8. It is only applicable to Postgraduates of the UTD/affiliated/ government colleges of CBLU



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Examination Scheme Open Elective Batch- 2023 Onwards

Sr. No.	Name of the Course	Department	Paper code	Theory	Internal				Practical	Grand Total
					Minor Test	Assignment	Attendance	Total Internal		
1	Vedic Mathematics	Mathematics	18-MTH-100	80	10	5	5	20		100
2	Creative Writing	English	ENG-100	80	10	5	5	20		100
3	Biodiversity of Living Organisms	Zoology	18-ZOO-100	80	10	5	5	20		100
4	Establishment & Management of New Business	Management	18-MBA-100	80	10	5	5	20		100
5	Yoga Health & Nutrition	Physical	MPE-100	60	10	5	5	20	20	100
6	Environment & Energy Management	Biotech	18-EEM-100	80	10	5	5	20		100
7	Swatch Bharat	Ph. Education	SB-100	60	10	5	5	20	20	100
8	Water and Soil Analysis	Chemistry	19-CHEM-100	80	10	5	5	20		100
9	Data Analysis Using Excel & SPSS	ICT & PGDCA	19-CS-100	80	10	5	5	20		100
10	Psychology for Everyday Living	Psychology	19-PSY-408 OEC	80	10	5	5	20		100
11	General Geography of India	Geography	19-GEO 209	80	10	5	5	20		100
12	Hindi Sanchar Kaushal	Hindi	18-HND-100	80	10	5	5	20		100
13	Character Building & Personality Development	Hindi	18SSUN-100	80	10	5	5	20		100
14	Health and Disease Control	Microbiology	19-HDC -100	80	10	5	5	20		100
15	Textile & Food Chemistry	Chemistry	20 -TFC-100	80	10	5	5	20		100
16	Elements of Nano-Science	Physics	19PHYOE-208	80	10	5	5	20		100
17	Medicinal Plants in Everyday Life	Botany	20BOT-100	80	10	5	5	20		100
18	Basic of Climatology	Geography	19-GE0312	80	10	5	5	20		100
19	Radiation Effects	Physics	19-PHY-308	80	10	5	5	20		100
20	General Geography of World	Geography	19-GEO-412	80	10	5	5	20		100
21	Statistical Techniques	Mathematics	22MTH-200	80	10	5	5	20		100
22	Contemporary Issues of Indian Economy	Economics	23ECO207	80	10	5	5	20		100
23	Indian Constitution; An Introduction	Political Science	23POL100	80	10	5	5	20		100

**M. A. ENGLISH (Open Elective)
Creative Writing**

ENG – 100

Credits- 2

Contact hours per week – 2hrs.

Max. Time – 3 hrs.

Maximum marks- 100

External Examination – 80

Internal assessment – 20

Note: Open Elective offered by the Department of English for the students of other departments.

(Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. Each question shall carry equal marks.)

Course Outcomes:

1. Develop creative writing skills across genres
2. Cultivate imaginative storytelling and expressive writing
3. Apply literary techniques in crafting original pieces
4. Experiment with diverse forms of creative expression
5. Engage in collaborative and constructive feedback sessions
6. Explore personal creativity and artistic voice
7. Understand the significance of creative writing in interdisciplinary contexts
8. Reflect on the role of creative writing in communication

Unit – I

Introduction to Creative writing: What is Creative Writing, Types of Creative Writing, Descriptive writing, Persuasive writing, Self-Reflective writing, Essential of Creative Writing: Mimesis, Role of Imagination, Use of Language

Unit – II

Poetry writing: Forms of Poetry: Sonnet, Ballad, Ode, Elegy, Rhyme and Meter, Use of Figurative Language: Simile, Metaphor, Alliteration, Assonance, Oxymoron, Paradox, Metonymym, Personification, Synecdoche, Exaggeration, Imagery

Unit – III

Fiction writing: Difference between a Short Story and a Novel, Types of a Novel: Realistic, Psychological, Science Fiction, Allegory, (auto) biographical novel, Graphic novel, Noir Fiction, Pulp Fiction

Narratology: Art of Characterization, Point of View, Diglossia, Plot Construction, Analepsis, Prolepsis

Unit – IV

New Forms of Creative Writing: Blog Writing, Media Writing: Article, Dialogue Writing, Content Writing

Suggested Readings:

Abrams, M.H. *A Glossary of Literary Terms*. 7th Ed. Harcourt, 2001.

Dev, Anjana Neira, Anuradha Marwah and Swati Pal. *Creative Writings*. Pearson, 2009.

Bode, Christoph. *The Novel: An Introduction*. Wiley Blackwell, 2011.

Strachan, John and Terry Richard. *Poetry*. Edinburg University Press, 2011.

Morley, David and Philip Neilsen. *The Cambridge Companion to Creative Writing*. Cambridge University Press, 2012.

Biodiversity of living organisms

Paper Code: 18-ZOO-100

Credits- 2

Maximum marks- 100

External examination -80

Internal assessment -20 Max.

Note: *There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. Each question shall carry equal marks.*

Unit -I

- 1) Introduction of Animal plant kingdom.
- 2) Difference between plant and animal kingdom.
- 3) Species estimate — estimated faunal, floral diversity in India.
- 4) Outline of classification of animal kingdom up to class level with general examples and general characters.
- 5) Outline of classification of plant kingdom up to class level with general examples and general characters.

Unit -II

- 1) Basic concept of ecosystem and different types of ecosystem.
- 2) Ecological succession.
- 3) Tropical level.
- 4) Concept of food chain and food web.
- 5) Ecological pyramids.

Unit -III

- 1) Conservation of biodiversity with emphasis on animals.
- 2) Key stone species of animal in conservation strategy.
- 3) Bioethics and conservation.
- 4) IUCN Red list categories.
- 5) Concept of protected area.

Unit -IV

- 1) Environmental policies at global and national level for maintaining biodiversity.
- 2) Environmental monitoring and significance.
- 3) Project Tiger.
- 4) Gir lion project.
- 5) Rhino conservation,

References:

1. Introduction to zoology — Joseph Springer Dennis Holley
2. Raven biology of plants — Ray F. Evert Susan E. Eichhorn
3. Biodiversity and conservation — P.C. Jashi
4. Plant biodiversity conservation and management -- T & G Meerabai Pullaiah
5. Botany : an introduction to plant biology ~ James D. Mauseth
6. Fundamental of ecology - E.P. Odum
7. Environmental biology and ecology — P.D. Sharma
8. An advanced text book on biodiversity principles and practices ~ K.V. Krishnamurthy
9. Botany — A.C, Dutta — Himalaya Publishing House.

Note: Open Elective offered by **Department of Zoology** for the students of other department.

ESTABLISHMENT & MANAGEMENT OF NEW BUSINESS

18-MBA -100

Credits-2
Maximum Marks -100
Theory Examination – 80
Internal Assessment – 20

Note: Nine questions are to be set by the examiner. Question No. 1 will be compulsory and based on the entire syllabus. It will contain eight short answer type question. Two question are to be set from each unit. The student is required to attempt five questions in all by selecting one question from each unit and question no. 1, which is compulsory. All question carry equal marks.

Unit -1

Introduction of Entrepreneurship: Entrepreneur, Characteristic, Type, Functions of an Entrepreneur; manager Vs Entrepreneur Vs Intrapreneurship, Factors Affecting Entrepreneurship, Role and importance of Entrepreneurs in economic development.

Unit – 2

Mechanics of setting new enterprise - generally business idea; Feasibility Studies: Technical, Marketing, Financial; Environment Analysis- Economic, social, Political, Cultural, Political, Legal; Strategies of entering in newbusiness.

Unit – 3

Business Plan Preparation; sources of finance & Financial institutions supporting new businesses; marketing for New Business-Pricing and promotion strategies; MSMEs-Characteristics, Issues, Role in growth of India

Unit – 4

Managerial Problems of New enterprise: Issues related to -Finance, Marketing, Personnel; legal issues - intellectual property rights patents, trademarks, copyrights, trade secrets, licensing; franchising.

Reference Books

1. Hisrich, Robert D, Michael Peters and Dean Shepherd, Entrepreneurship, Tata McGraw Hill, New Delhi
2. Lall, Madhurima, and ShikhaSahai, Entrepreneurship, Excel Books, New Delhi
3. Clifton, Davis S &Fyfie, DavidE. project feasibility Analysis, John Wiley.
4. Desai, A. N., Environment & Entrepreneur, Ashish Publications.
5. Drucker, Peter F., Innovation and Entrepreneurship, Heinemann.
6. Jain R., Planning a Small Scale Industry: A Guide to Entrepreneurship, S.S. Books
7. Kumar, S.A, Entrepreneurship in Small Industry, Discovery.
8. McClelland, D C &n Winter, W. F Motivating Economic Achievement, Free Press.
9. Pareek, Udai and VenkateswaraRao, T., Developing Entrepreneurship-A Handbook

Yoga & Health

(Open Elective)

MPE-100

Credits-2

Contact hours per week – 2hrs.

Maximum Marks – 100

External Examination -60

Practical + Internal Assessment – 40

Max. Time – 3 hrs

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.

Unit – I

- Meaning definition dimension and determinants of health
- Role of Physical activities in maintaining health
- Health problem in India, effect of alcohol, tobacco on health
- Preventive strategies for obesity, hypertension, coronary heart disease, diabetes in relation to physical activities and lifelong wellness

Unit – II

- Meaning & definition of food & nutrition
- Basic nutrition guideline and role of nutrition in daily life
- Concept of balanced diet caloric values of food
- Role of diet in weight management

Unit – III

- Introduction of Yoga : Meaning & definition
- Astanga Yoga, Yama, Niyama, Aasana, Pranayama, Prathyahara, Dharama, Dhyana, and Samadhi;
- Yogic Practice: Place, Time, Clothes, Bathing, Diet before and after Yoga
- Surya Namaskar: methods and Benefits

Unit – IV

- Meaning of Asana, its types and principles
- Meaning of Pranayama, its types and principles

- Meaning of Kriyas, its types and principles
- Meaning of Bandhas, its types and principles

PRACTICAL

ASANA

1. Shirsh Asana
2. Vipratarani
3. Hal Asana
4. Bhujang Asana
5. Ardh-Shalbh Asana
6. Vakra Asana
7. ArdhaMatasynendrasana
8. Paschimottan Asana
9. Vajra Asana
10. Supta Vajra Asana
11. Nauka Asana
12. Bak Asana
13. Mayur Asana
14. Ustra Asana
15. Vriksh Asana
16. Padma Asana
17. Trikon Asana
18. Sarvang Asana
19. Manduk Asana
20. PavanMukatasana
21. Chakra Asana
22. Parvatasana

PRANAYAMA

1. Anulom-vilome
2. Ujjai
3. Bhastrika
4. Shitali
5. Bhramari

Surya Namaskar

Note: For Pracial

Any ten Asanas, two Pranayama and Suryanamaskar out of the following and presentation on a particular topic given by department

References;

1. Buher Charles A. "Administration of Health and Physical Education Programme"
2. Delbert, Oberteuffer, et.al. "The School Helth Education"

Environment and Energy Management

18-EEM-100

Credit-2

Maximum Marks – 100

External Examination -80

Internal Assessment – 20

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.

This course provides the basic understanding of the close relationships between the environment and energy. It will enlighten the challenges, our responsibilities, and multifaceted management of the resources to balance between the two. In addition, this subject will also educate the students to apply their knowledge in understanding and solving the environmental issues in day to day life.

Unit – I

Causes, Risk factors and Prevention strategies for air, water, soil, radioactive and noise pollution; Chemical and biological methods for the measurement of pollution; Concepts of Acid rain, Greenhouse effect and Ozone depletion.

Unit – II

Concept, scope and limitations of environmental management; Innovative techniques for environmental management - Vermicomposting, Biogas production, Biocontrol agents, Bioplastics, Bioremediation, Biomining.

Unit – III

Renewable and non-renewable sources of energy, their advantages and disadvantages, Solar energy: generations, basic principle and applications.

Unit – IV

Geothermal, wind and tidal energy: basic principle, advantages and disadvantages, respective applications

Swachh Bharat

SB-100

Credits-2

Contact hours per week – 2hrs.

Maximum Marks – 100

External Examination -60

Practical + Internal Assessment – 40

Max. Time – 3 hrs

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.

Unit – I

- Explain Swacchhata,
- Ways of awareness for Swachhata
- Personal Hygeine

Unit – II

- Health and Health Education
- Balance diet and Sanitation practices

Unit – III

- Solid waste management, Segregation, Disposal
- Non-Biodegradable and Biodegradable waste

Unit – IV

- Compost pits, Biogas plants
- ways of campaigning
- Role of Gram panchayat in Swachhta

Water & Soil Analysis

19- CHEM-100

Credit-2

Maximum Marks: 100

Theory Examination: 80

Internal Assessment: 20

Note: *There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

Unit-I

Water Sampling & Processing: Preparation of sampling, techniques for sampling, various procedure for watersampling, Types of water sampling.

Unit-II

Water Analysis: Analysis of water by pH & Electrical conductivity measurement, Measurement of hardness by EDTA method, Method of water softening using lime soda process, deionization.

Unit-III

Soil Sampling & Processing: Soil sampling (composite sampling, sampling time, sampling depth and tools) Soil Pollution: Causes, effects & control.

Unit-IV

Soil Analysis: Soil physical Analysis: moisture content, water holding capacity.

Soil chemical Analysis: Determination of nitrogen using kjeldhal method, determination of phosphorous by sodium bicarbonate method and determination of sulphate by precipitation method.

Suggested Readings:

1. *Methods of Soil, Plant & Water Analysis; George Estefan; R. Sommer & J. Ryan, ICARDA, Third Edition, 2013.*
2. *Soil Pollution: Origin, Monitoring & Remediation; Ibrahim A. Mirsal, Springer Science & Business Media, 2013*
3. *Soil Chemical Analysis; M. L. Jackson, Parallel Press, 2005.*
4. *The Chemical Analysis of water: General Principles & Techniques; D.T.E. Hunt and Wilson; The Royal Society of Chemistry, 1986.*

Data Analysis Using Excel & SPSS

19- CS-100

Credit-2

Maximum Marks-100

External Examination-80

Internal Marks-20

Max. Time- 3hrs

Note: *There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. Each question shall carry equal marks.*

Unit: 1

Electronic Spread Sheet using MS-Excel-Introduction to MS Excel and its applications, Cell, Cell Address, Creating & Editing worksheets, Formatting, and Essential operations, Moving and Copying data in excel

Unit: 2

Header and Footer, Cell referencing, Page setup, Macros, Advance feature of MS Excel-Pivot Table &Pivot Chart, Linking and Consolidation, Chart Builder, Histogram, Boxplot, BarChart, Cluster Bar, Stacked Bar, Line Chart, Pie Chart, Column Chart, Editing graph, and axes.

Unit:3

Database Management using Excel-Sorting, Filtering, Data Validation, what if analysis with Goal Seek, Conditional Formatting, Formula, and Functions: Mathematical, Statistical, Financial, etc.

Unit:4

Introduction to SPSS: General functions, variable view. Entering and modifying data, charting your data, Basic statistical concepts: Correlation, regression, variance, statistical significance, hypothesis testing

Psychology for Everyday Living

Paper Code-19 PSY-408 OEC

Credit-2

Total Marks: 100

External Marks: 80

Internal Marks: 20

Time: 3 Hours

Note:

- a) Nine questions would be set in all. Candidates would be required to attempt five questions.*
- b) There would be two questions (16 marks each) from each of the four Units.*
- c) Candidates would attempt one question from each Unit.*
- d) Question No. IX would be compulsory. It shall be based on the entire syllabus and would contain eight short answer questions of two marks each*

Unit I

Science of Psychology: Definition, Goals, Basic and Applied areas of Psychology.

Self: Nature of self, Self-Regulation and Personal Growth.

Unit II

Intelligence: Definition; Theories: Theory of multiple intelligences, Triarchic theory, Emotional Intelligence.

Administration: Any one test of Intelligence/Emotional Intelligence.

Unit III

Personality: Definition; Theories: Trait and Type: Eysenck; Psychoanalytical: Freud; Humanistic: Maslow.

Administration: Any one objective test of Personality.

Unit IV

Stress and Coping: Nature of Stress; Sources; Stress reactions; Factors that influence reactions to stress.

Coping with stress: Modifying environment; Altering lifestyle.

Suggested Readings:

Khatoon, N. (2012). General Psychology. Pearson: Delhi. Baron,

R.A. and Misra, G. (2016). Psychology. Pearson: Delhi.

Ciccarelli, S.K. and Meyer, G.E. (2006). Psychology. Pearson: Noida

General Geography of India

19GEO-209

Maximum Marks-100
Theory Examination-80
Internal Assessment-20
Max. Time- 3 hrs

Objective: The course aims to provide understanding to the students about the geographic dimensions of India in terms of its political and administrative characteristics. It also familiarizes the students with the physical, climatic, human and economic dimensions of India in a spatial perspective.

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.

Unit I

India: Locational Setting and Geographical Expansion.
Relief and Drainage Systems.
Climate, Soil and Natural Vegetation.
Geographical Regions of India.

Unit II

Peoples of India.
Population; Distribution, Density and Growth.
Population Composition: Ethnic and Socio-cultural attributes (caste and tribes).
Unity in Diversity in India.

Unit III

Agriculture: Production, Productivity and Yield of major crops.
Major Crop Regions of India.
Agro-climate Zones of India.

Unit IV

Industrial Development since Independence.
Industrial Region and their characteristics.
Industrial Policy of India.

Suggested Readings:

1. Ahmed, A. India: A General Geography. NCERT, New Delhi.
2. Hussain, M. (2017) Geography of India. McGraw Hill Education Series.
3. Qaureshi, M. H. India: People and Economy. NCERT, New Delhi.
4. Qaureshi, M. H. India: Physical Environment. NCERT, New Delhi.
5. Tiwari, R. C. (2016) Geography of India. Prayag Pustak Bhawan, Allahabad.

हिन्दी संचार कौशल

HND -100

Credits – 2

Contact Hours per week – 2 Hrs

Max. Time – 3 Hrs

Maximum Marks – 100

External Examination – 80

Internal Assessment - 20

- नोट:- 1. पूरे पाठ्यक्रम से आठ वस्तुनिष्ठ प्रश्न पूछे जाएंगे। प्रत्येक प्रश्न एक-एक अंक का होगा।
2. पूरे पाठ्यक्रम में से कोई 10 लघुत्तरी प्रश्न पूछे जाएंगे, जिनमें से परीक्षार्थी को 250-250 शब्दों में किन्हीं छः प्रश्नों के उत्तर देना होगा। प्रत्येक प्रश्न 4 अंक का होगा। पूरा प्रश्न 24 अंक का होगा।
3. पाठ्यक्रम में निर्धारित प्रत्येक इकाई में से आंतरिक विकल्प के साथ एक-एक दीर्घ प्रश्न पूछा जाएगा, जिनमें से परीक्षार्थी को प्रत्येक इकाई से एक-एक प्रश्न करना होगा। प्रत्येक प्रश्न के लिए 12 अंक निर्धारित हैं। पूरा प्रश्न 48 अंकों का होगा।

इकाई-1

संचार की अवधारणा –अर्थ, परिभाषा, स्वरूप, प्रकार एवं महत्व, संप्रेषण का अर्थ, परिभाषा एवं माध्यम, भाषा संप्रेषण के चरण, साक्षात्कार, भाषणकला एवं लेखन, ।

इकाई-2

हिन्दी भाषा एवं उसकी बोलियां –हिन्दी भाषा का विकास, हिन्दी की बोलियां, देवनागरी लिपि की विशेषताएँ, हिन्दी व्याकरण (मुहावरे, लोकोक्तियाँ, सामानार्थक, विपरीतार्थक शब्द)

इकाई-3

व्यावहारिक हिन्दी –हिन्दी की संवैधानिक स्थिति, राजभाषा अधिनियम, राष्ट्रपति अध्यादेश, पत्र लेखन(सरकारी व अर्द्धसरकारी)।

इकाई-4

अनुवाद एवं सृजनात्मक लेखन –अनुवाद की परिभाषा एवं स्वरूप, अनुवाद प्रकृति एवं प्रक्रिया, अनुवाद वर्गीकरण, व्यावहारिक अनुवाद (अंग्रेजी/हिन्दी), सृजनात्मक लेखन – कविता, कहानी, नाटक, निबंध।

संदर्भ सामग्री –

1. हिन्दी भाषा उद्गम और विकास, उदय नारायण तिवारी, भारती भंडार, इलाहाबाद, 1961
2. हिंदी उद्भव और विकास, हरदेव बाहरी, किताब महल, इलाहाबाद, 1966
3. हिंदी भाषा शिक्षण, रविन्द्रनाथ श्रीवास्तव, सहकारी प्रकाशन, नई दिल्ली, 1981
4. अनुवाद विज्ञान और संप्रेषण, हरिमोहन, तक्षशिला प्रकाशन, नई दिल्ली, 1984
5. अनुवाद विज्ञान और आलोचना की नयी भूमिका, रविन्द्रनाथ श्रीवास्तव, केंद्रीय हिंदी संस्थान, आगरा, 1990
6. भारतीय भाषा और हिंदी अनुवाद समस्या समाधान, कैलाश चंद्र भाटिया, वाणी प्रकाशन नई दिल्ली।
7. भाषा और प्रौद्योगिकी, विनोद कुमार प्रसाद, वाणी प्रकाशन, नई दिल्ली।

मुक्त ऐच्छिक विषय चरित्र निर्माण एवं समग्र व्यक्तित्व विकास

18-OEC-100

Credits – 2

Contact Hours per week – 2 Hrs

Max. Time – 3 Hrs

Maximum Marks – 100

External Examination – 80

Internal Assessment - 20

इकाई-1

चरित्र निर्माण एवं व्यक्तित्व विकास, अर्थ, अभिप्राय एवं अवधारणात्मक स्पष्टता, चरित्र निर्माण एवं विकास की प्रक्रिया में विवेकानन्द जैसे महापुरुषों का वैचारिक परिप्रेक्ष्य एवं योगदान, पंचकोश-अर्थ, अभिप्राय एवं अवधारणात्मक स्पष्टता, उपनिषदों में वर्णित पंचकोश का मूल अध्ययन।

इकाई-2

अन्नमय कोश, अर्थ, अभिप्राय एवं विकास की प्रक्रिया, अन्नमय कोश के विकास, निर्माण एवं रक्षण की प्रक्रिया में अन्न का स्थान एवं महत्त्व व्यक्ति की स्थूल अभिव्यक्ति के रूप में अन्नमय कोश का महत्त्व एवं स्थान, अन्नमय कोश का विकास एवं स्वस्थ, निरोगी, बलवान, ओजपूर्ण, सहनशील, लोचपूर्ण एवं सुडौल शरीर निर्माण की प्रक्रिया।

अन्नमय कोश के आयाम शारीरिक शिक्षा, स्वास्थ्य शिक्षा, स्वच्छता एवं सफाई, श्रम कार्य, पर्यावरण संरक्षण।

इकाई-3

1. प्राणमय कोश का विकास-

प्राणमय कोश : स्वरूप, लक्षण एवं महत्त्व, प्राण के आवेग के चार प्रकार-आहार, निद्रा, भय तथा मैथुन। प्राण, धारणा हेतु आवश्यक मूल प्रवृत्तियाँ, प्राण शक्ति का विकास एवं इसका शरीर तथा मन से सम्बंध, प्राणों के विकास हेतु प्रयास, असंतुलन एवं इसके दुष्प्रभाव।

2. मनोमय कोश का विकास-

मनोमय कोश : स्वरूप लक्षण एवं महत्त्व, इच्छा, सुख, रोग, द्वेष, करुणा आदि भावनाओं द्वारा शरीर के संचालक के रूप में मन के विकास की प्रक्रिया, एकाग्रता अनासक्ति एवं सकारात्मकतामन शुद्धि की प्रक्रिया एवं इसका शरीर, बुद्धि एवं आत्मा पर सकारात्मक प्रभाव का अध्ययन एवं अनुभूति, मन के भाव, विकार, स्वभाव का अध्ययन, मन के विकास हेतु गतिविधियाँ तथा कार्यक्रम।

इकाई-4

1. विज्ञानमय कोश का विकास – विज्ञानमय कोश : स्वरूप, लक्षण एवं महत्त्व, बुद्धि के विशिष्ट कार्य, विवेक एवं निर्णय आदि की क्षमता के विकास के रूप में, छात्र ज्ञानवान एवं विवेकशील बने इस हेतु गतिविधियाँ, छात्रों में नेतृत्व क्षमता/कला प्रयोगशालता, अनुसंधान एवं वैज्ञानिक दृष्टिकोण के विकास हेतु योजना, अध्ययन एवं विभिन्न पद्धतियाँ।

2. आनन्दमय कोश एवं इसका विकास – आनन्दमय कोश : स्वरूप, लक्षण एवं महत्त्व, विज्ञानमय कोश से भी अधिक सूक्ष्म, व्यापक एवं परिष्कृत, मूल स्वभाव आनन्द, प्रेम, सौन्दर्य, स्वतंत्रता और सहजता के रूप में आनन्दमय कोश एवं अध्यात्म में सम्बंध, प्रसन्नता, सुख एवं आनन्द का अंतर, सत्, चित् एवं आनन्द की अवस्थाएं, सामूहिकता, पारंपरिकता, पारदर्शिता।

आध्यात्मिकता से अभिप्राय, आत्मा का ज्ञान/साक्षात्कार एवं आत्मस्वरूप में स्थित हो, आनन्द की अनुभूति, स्वयं के अन्दर देखने का स्वभाव बनाना, स्वस्थ अर्थात् स्व में स्थिर रहना, निस्वार्थ भाव से कार्य।

3. छात्रों की समस्याओं के समाधान हेतु विमर्श केन्द्र – मुख्य आयाम : व्यावसायिक मार्गदर्शन लक्ष्यनिर्धारण, व्यक्तित्व एवं किशोर वय की समस्याओं का समाधान छात्रों से संवाद, आधुनिक तकनीकी के प्रयोग एवं उसकी मर्यादाओं की समझ, नागरिक कर्तव्य दिनचर्या एवं समय का नियोजन।

पाठ्य सामग्री एवं संदर्भ ग्रन्थ सूची –

(यहां कुछ पुस्तकों की संकेत मात्र सूची दी जा रही है। सूची में और भी पुस्तक सम्मिलित की जा सकती है।)

- | | |
|---|----------------------|
| 1. मूल उपनिषद एवं गीता प्रेस की टीकाएं | |
| 2. व्यक्तित्व विकास | स्वामी विवेकानन्द |
| 3. मन की शक्ति | स्वामी विवेकानन्द |
| 4. एकाग्रता | स्वामी विवेकानन्द |
| 5. पंचकोश एवं व्यक्तित्व विकास | श्रीराम शर्मा आचार्य |
| 6. आत्मतत्व का विस्तार | बहन इन्दुमती का बदरे |
| 7. विवेक चूडामणि | आदिगुरु शंकराचार्य |
| 8. योग | डॉ एच.आर. नागेन्द्र |
| 9. भारतीय मनोविज्ञान | श्री लज्जा रामतामर |
| 10. चरित्र निर्माण एवं व्यक्तित्व के समग्र विकास का पाठ्यक्रम | श्री दीना नाथ बत्रा |
| 11. विद्यालय गतिधियों का आलय | श्री दीना नाथ बत्रा |

स्वामी विवेकानन्द के विचारों का उच्च शिक्षा में समावेश

Note: There shall be nine questions in all. Question no.1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. Each question shall carry equal marks.

Objective: The course is designed to impart basic knowledge about health and diseases

Outcome: Basic knowledge about health & diseases will provide general awareness about health and disease prevention.

Unit-1

Health, definition of health, public health, environmental health, occupational health, mental health, factors determining health, income & social status, education & employment, social environment, physical environment, child development, health services, gender and culture. Role of exercise and sleep on health.

Unit-2

Disease, types of diseases, communicable diseases, non-communicable diseases, infectious diseases, deficiency diseases, hereditary disease, genetic & non-genetic diseases. General information related to influenza, chikungunya, hepatitis, HIV/AIDS, tuberculosis, malaria, corona virus, cancer, diabetes, chronic obstructive pulmonary disease, obesity, malnutrition.

Unit-3

Blood: Blood group- four main blood groups, rarest blood group, common blood group, Rh factors,

blood cells: Red Blood Cells, White Blood cells

Malaria: Malaria, discovery of malaria, vectors of malaria, distribution of malaria in India, symptoms, control of malaria

Unit-4

Hepatitis: types of hepatitis, symptoms of hepatitis, transmission, vaccine and control of hepatitis.

Tuberculosis (Mtb), types of tuberculosis, sign & symptoms of tuberculosis, diagnosis, drug resistance, Vaccine and control of tuberculosis.

Diabetes: definition, types, symptoms and control of diabetes.

Note: Time to time visit to hospitals for regular check-ups.

References:

1. Shirley Mitchell Lewis, Barbara J. Bain, Imelda Bates, Dacie and Lewis Practical Haematology, Churchill Livingstone, 2001
2. Prescott, L.M., Harley, J.P. and Klern, D.A. Microbiology, 6th Edition, McGraw Hill, London (2005).
3. Medical Microbiology by Mims, Playfiar, Roitt, Wakelin and Williams, 1993, Mosby- year Book Europe Ltd., U.K.

Textile & Food Chemistry

20-TFC-100

Credit-2

Maximum Marks: 100
Theory Examination: 80
Internal Assessment: 20

Note: *There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

Unit-I

Textile Chemistry I: Introduction (terminologies related to textile chemistry); classification of fibers; Properties of textile fibers Advantages & disadvantages of natural and manmade fibers; Flow charts showing processes involved in textile industry.

Unit-II

Textile Chemistry II: Brief outline of the manufacturing processes of important man-made fibers i.e. rayon (Viscose & Acetate), nylon, polyester, acrylic, polypropylene, polyolefins, polyacrylonitrile and technical speciality fibers like lycra etc (only flow chart); Physical and chemical properties and applications.

Unit-III

Food Chemistry: Brief introduction & classification of Carbohydrates (mono, di & polysaccharide), Vitamins: Types & its deficiencies, Minerals, Proteins (amino acids, peptide bonds and structure of primary secondary, tertiary & quaternary), Biological role of Enzymes.

Unit-IV

Food Adulteration: Introduction, Types of food adulteration, method of determination & Effects of food adulteration.

Suggested Readings:

1. *Handbook of textile fibers Vol-I; J Gordon Cook, Hyperion Books, 5th Edition, 1984*
2. *Introduction to Textile Fibers; HVS Murthy, CRC Press, 2018*
3. *Manufactured Fiber Technology V B Gupta & V K Kothari, Springer Science, 1st edition, 1997*

Elements of Nano Science

19PHYOE-208

Credit-2

Maximum Marks-100

External Examination-80

Internal Assessment-20

Max. Time- 3 hrs.

Note: *There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

Unit-I

Introduction to Nanomaterials: Bottom up and Top Down approach, Classification of nanostructures: Zero dimension, one dimension and two dimensional nanostructures, Smart materials.

Unit-II

Nanostructure fabrication by Physical Methods: Physical Vapor deposition: evaporation, Molecular beam epitaxy, sputtering, comparison of evaporation and sputtering, Lithography: Photolithography, Electron Beam Lithography, X-ray lithography

Unit-III

Structural characterization: X-ray diffraction, small angle X-ray scattering, Scanning Electron Microscopy, Transmission Electron Microscopy, Atomic Force Microscopy, Scanning Tunneling Microscopy, Spectroscopic Techniques: UV-Visible Spectroscopy, Photo-luminescence spectroscopy, Infra-red spectroscopy, Raman Spectroscopy,

Unit-IV

Physical properties of nanomaterials: Melting points and lattice constants, Mechanical properties, Optical properties, Electrical conductivity, Superparamagnetism

Reference Books:

1. *Introduction to Nanotechnology* – Charles P. Poole Jr. and Frank J. Owens, Wiley India Pvt.Ltd., 2007.
2. *Nanomaterials* – Guozhong Cao, Imperial College Press, 2004.

Note: *In this paper, knowledge of basic physics at UG level is required.*

Medicinal Plants in Everyday Life
20BOT-100

Credit-2
Maximum Marks: 100
Theory Examination: 80
Internal Assessment: 20

Objective: *The course deals with the basic knowledge of Medicinal Plants including their evolution, structure and applications. It will also help them to understand their importance and need for conservation.*

Outcome: *Students will be able to use generally available plants in their vicinity to cure various ailments. It will also encourage them to protect our biodiversity.*

Note: *There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

UNIT – I

General account of medicinal plants: Origin and History of Ayurvedic system of medicine, Diversity and Classification of medicinal plants, General account on applications and utility of medicinal plants.

UNIT – II

Vernacular name, Morphology, Plant Part used and applications of General Medicinal Plants: *Azadirachta indica, Acacia nilotica, Aloe barbadensis, Calotropis procera, Ficus religiosa, Mentha arvensis, Allium sativum, Ocimum sanctum, Phyllanthus emblica, Piper nigrum, Curcuma longa, Zingiber officinalae, Citrus sp.*

UNIT-III

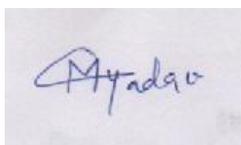
Vernacular name, Morphology, Plant Part used and applications of Advance Medicinal Plants: *Cannabis sativa, Tinospora cordifolia, Rauwolfia serpentine, Withania somnifera, Papaver somniferum, Solanum indicum, Abutilon indicum, Mimosa pudica, Ricinus communis, Euphorbia hirta, Datura sp., Terminalia sp. Cinchona*

UNIT-IV

General account on Post Harvesting Procedures: Processing, Utilisation & Storage of medicinal plants, Quality control and evaluation of herbal drugs, Adverse effects of imbalance herbal medicines intake, Threats and conservation of medicinal plants.

Suggested readings:

1. Kocchar, S.L. 1998. *Economic Botany of Tropics*, Macmillan India Publisher.
2. Chopra R.N., Nayar S.L. and Chopra I.C. (1969): *Glossary of Indian Medicinal Plants. Publication and Information Directorate, CSIR, New Delhi.*
3. Ambasta S. P. (1986): *The Useful Plants of India. Publication & Directorate, CSIR, New Delhi.*
4. Cracker L.E. and Simon J.E. (ed. by) (2002): *Herbs, Spices and Medicinal Plants: Recent Advances in Botany, Horticulture and Pharmacology (Volume I- IV) (Ind. Reprint). CBS Publishers & Distributors, New Delhi*
5. Kirtikar K.R. and Basu B.D. (1998): *Indian Medicinal Plants (I to VIII Volumes) (Text + Icons) (2nd edn.) (4th Reprint) BishenSingh Mahendrapal Singh, Dehradun*



Basic of Climatology

19-GEO-312

MaximumMarks-100
Theory Examination-80
Internal Assessment-20

Objective: *The overall objective of the course is to foster comprehensive understanding of atmospheric phenomena; dynamics and global climates.*

Note: *There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

Unit I:

Definition of weather and climate; Climatology and Meteorology; Origin, composition and structure of atmosphere; Solar radiation, greenhouse effect, heat budget and temperature distribution.

Unit II:

Atmospheric pressure and its distribution pattern; Theories of general circulation and planetary winds; Walker circulation- ENSO and La Nina, origin of monsoons and jet streams.

Unit III:

Atmospheric Moisture: humidity, evaporation, condensation; precipitation formation theories and types of precipitation, acid rain; Stability and instability of atmosphere, air masses and fronts;

Unit IV:

Weather systems: Origin and characteristics of extra tropical and tropical cyclones; Climatic change: pattern, evidences and theories of climate change; Global warming and its impacts on earth systems.

Suggested Readings:

1. Trewartha, G. T. (1980) *An Introduction to Climate*. McGraw Hill Company, New York.
2. Chritchfield, H. J. (1987) *General Climatology*. Printice Hall of India, New Delhi.
3. Barry, R. G. and Chorley, R. J. (2010). *Atmosphere, Weather, and Climate*. Marthren.
4. Lal, D. S. (1966) *Climatology*. Chetanya Publishing House, Allahabad.
5. Das, P. K. (1984) *The Monsoons*. National Book Trust, New Delhi.
6. Ramasastry, A. A. (2014) *Weather and Weather Forecasting*. Publication Division, New Delhi.
7. Athrens, C. D. (1994) *Meteorology Today: An Introduction to Weather, Climate and Environment*. West Publishing Co.

Radiation Effects

19PHYOE-308

Credit-2
Maximum Marks-100
External Examination-80
Internal Assessment-20

Note: *There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks...*

Unit-I

Radiation and need for its measurement, Physical features of radiation, Conventional sources of radiation.

Exposure to natural radiation: external to the body, Radiation from cosmic rays and solar radiation,

Unit-II

Internal exposure to the body, Radioactivity arising from technological development: Possible health hazards from nuclear and laser radiations.

Maximum permissible level of radiation, radiation quantities and units of energy flux, energy fluence, cross-section.

Unit-III

Biological effects of radiation: Dose - response characteristics, Direct and indirect action, Acute effects, Delayed effects, Cumulative effect, Accidental exposure, Radiation-induced chemical changes in tissues, Radiation protection procedures (diagnostics and therapy).

Unit-IV

Basic radiation safety criteria, Protection from direct radiation, Energy deposition, Effect of distance and shielding, Protection from contamination, Preparation of a safe radiation area,

Radioactive waste disposal and management: Type of radioactive waste, Airborne waste, Solid and liquid waste, Assessment of Hazard.

References Books:

1. *Introduction to Radiobiology and Radiation Dosimetry* - F.H. Aurix, John Wiley.
2. *Techniques of Radiation Dosimetry* - Eds K. Mahesh and DR Vij Wiley Eastern Limited.
3. *Nuclear Energy* - Raymond L. Murray Pergamon Press, N.Y.

General Geography of World

19 GEO 412

Credit-2
Maximum Marks-100
Theory Examination-80
Internal Assessment-20

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.

Unit I:

Continents and Oceans: Their location, expansion and geographical characteristics.
World Major Physiographic Units: Mountain, Plains and Plateaus.

Unit II:

World Climates and Major Climatic Regions
Major Soil Types and Natural Regions.

Unit III:

Human Biological Diversity, Ethnicity and Distribution of Races
Major Religions of World and their Distribution.

Unit IV:

Population: Distribution, Density and Growth
World Economy: Characteristics of Developed and developing Economics.

Suggested Readings:

1. Hussain, M. (2006) *World Geography*. Rawat Publishers, New Delhi.
2. Pounds and Taylor. (1974) *World Geography*. South Western Publishing Co., Ohio.
3. Brown, I. (ed). (1994) *State of the World*. WW Norton and Co. New Delhi.
4. Mcdougal, H. (2010) *World Geography*. HMH Publishing Co.

Open Elective
Statistical Techniques

Code: 22MTH-200

Course Objectives:

The learning objectives include:

- To summarize the data and to obtain its salient features from the vast mass of original data.
- To understand the concept of Measures of location and dispersion.
- To understand the concepts of probability and its applications.
- To understand the concept of correlation and regression.
- To understand the concept of testing of hypothesis.
- To understand the concept of statistical quality control.

Course Learning Outcomes:

After completing this course, the students should have developed a clear understanding of:

- Tabular and graphical representation of data based on variables.
- Measures of central tendency and Dispersion.
- Different approaches to the theory of probability.
- Important theorems on probability and their use in solving problems.
- Concepts and applications of correlation and regression analysis
- Test of significance
- Statistical Quality Control

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. Each question shall carry equal marks.

Unit - I

Statistical Methods: Definition and scope of Statistics, tabular presentation and graphical representation of statistical data Bar diagram, Pie-Chart, Histogram and Ogives curve.

Measures of central tendency: Mean, median, mode,

Measures of dispersion: Range and standard deviation.

Unit - II

Probability: Introduction, random experiments, sample space, events and algebra of events. Definitions of Probability-classical, statistical, and axiomatic. Conditional Probability, Addition and multiplication theorem of probability, independent events, Bayes' theorem and its applications.

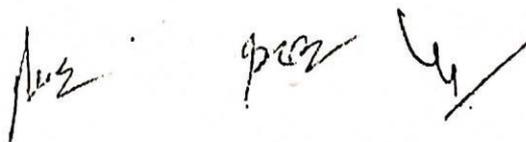
Unit - III

Correlation analysis: Introduction, Types of correlation, Karl Pearson's and Spearman's rank correlation coefficient.

Regression analysis: Introduction, Equations of Lines of Regression, Properties of Regression Coefficients.

Unit - IV

Hypothesis Testing: Introduction, null and alternative hypothesis, One tailed and two tailed hypotheses, types of errors, level of significance, small sample test of significance- student t-test and Chi square test

Handwritten signatures: 

Contemporary Issues of Indian Economy

(Open Elective Course to be offered to other Departments of the University)

Course Code: 23ECO207

Time: 3 hrs.

Total Marks:100

External: 80

Internal: 20

Instructions for the paper setter/students: There will be 9 questions in all. The first question is compulsory consisting of 8 short answer type questions (30-35 words) of 2 marks each, set from the whole syllabus. The remaining 8 questions shall be from the four units, i.e., 2 questions from each of the four units of 16 marks each. The examinees have to attempt one question from each unit besides the compulsory question.

Course Objective: The objective of this paper is to acquaint the students with the performance of different sector of the Indian economy. This will provide them an insight to understand basic features and functioning of the Indian economy.

Unit -I

Introduction of Indian Economy, Features of Indian economy; Nature and Characteristics of Indian economy.

Unit -II

Agriculture: Role and features of Indian agriculture; WTO and Indian agriculture, Poverty in India - Absolute and relative analysis of poverty.

Unit -III

Concepts of Demography- Vital rates, life tables, composition and uses. Measurement of fertility - Total fertility rate, gross and net reproduction rate - Age pyramids, Characteristics of Indian population through recent census.

Unit -IV

Monetary policy of RBI; Growth and problem; Role of commercial banks in India; Banking sector reforms since 1991.

Course Outcomes: At the end of the course students will be able to:

CO₁: Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.

CO₂: Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.

CO₃: Understand agriculture as the foundation of economic growth and development, analyses the progress and changing nature of agricultural sector and its contribution to the economy.

CO₄: Acquire knowledge on basics of banking sector.

Amal

Suggested Readings

- Bardhan. P.K. (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
- Brahmanada, P.R. and V.R. Panchmukhi (Eds.) (2001), Development Experience in the Indian Economy: Inter-State Perspectives, Bookwell, Delhi.
- Datta, R. and KP.M. Sundhram (2003), Indian Economy. S. Chand & Company Ltd. New Delhi. Government of India, Economic Survey, (Annual), Ministry of Finance, New Delhi.
- Dhar, P.K., Indian Economy - Its growing dimensions, Kalyani Publishers, New Delhi.
- Economic Surveys, Government of India, various issues.
- Mishra, S.K and V.K Puri Indian Economy- 151 Development Experience, Himalaya Publishing House, Mumbai, Latest Edition.
- Mishra, S.K. and V.K. Puri Indian Economy - 1st Development Experience, Himalaya Publishing House, Mumbai, Latest Edition.
- Reserve Bank of India, Report on Currency, and Finance (Annual).
- Sen, R.K. and B. Chatterjee (2001), Indian Economy: Agenda/or 21st Century:
- Todaro, P. Development Planning: Models and Methods. United Nations, Guidelines for Project Evaluation.

Amadey

Indian Constitution: An Introduction

(Open Elective Paper for UTDs & Affiliated Colleges Students except Political Science)

Paper Code- 23POL100

Credits- 2

Marks- 100

External Examination -80

Internal Assessment -20 Max.

Time - 3hrs

Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit. Each question shall carry equal marks.

Unit I

Indian Constitution: Salient Features of Indian Constitution.

Preamble of Indian Constitution.

Fundamental Rights and the Directive Principles of State Policy.

Unit II

Union Executive: President and Prime Minister.

State Executive: Governor and Chief Minister.

Union Parliament and State Legislative Assembly.

Local Self Government: Panchayati Raj Institutions.

Unit III

Supreme Court of India, High Courts.

Election Commission of India.

Controller and Auditor General of India (CAG).

Unit IV

Good Governance.

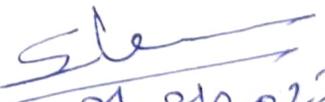
Lokpal & Lokayukta.

Right to Information Act.

Citizen's Charter.

Suggested Readings:

- Austin, Granville, *The Indian Constitution: Cornerstone of a Nation*, New Delhi, Oxford University Press, 1966.
- Austin, Granville, *Working a Democratic Constitution: A History of the Indian Experience*, New Delhi, Oxford University Press, 1999.
- Basu, D.D., *Introduction to the Constitution of India*, Gurgaon, LexisNexis, 2015.
- Bhargava, Rajeev, ed., *Politics and Ethics of the Indian Constitution*, New Delhi, Oxford University Press, 2008.
- Brass, Paul R., *The Politics of India since Independence*, London, Cambridge University Press, 1994.
- Chaube, S. K., *Constituent Assembly of India: Springboard of Revolution*, New Delhi, People's Publishing House, 1973.
- Choudhry, Sujit, Madhav Khosla, Pratap Bhanu Mehta, eds, *The Oxford Handbook of the Indian Constitution*, Oxford, Oxford University Press, 2016.
- Hasan, Zoya et al., eds., *India's Living Constitution: Ideas, Practices, Controversies*, New Delhi, Permanent Black, 2002.
- Kapur, Devesh and Pratap B Mehta (eds.) *Public Institutions in India: Performance and Design*, New Delhi, Oxford University Press, 2007.
- M.P. Singh and S.R. Raj, ed. *The Indian Political System*, Noida, Pearson 2012.
- Madhav Khosla, *Bharat Ka Sanvidhan* (In Hindi Medium), OUP, New Delhi, 2018.
- Madhav Khosla, *India's Founding Moment: The Constitution of a most surprising Democracy*, Harvard University Press, 2020.
- Madhav Khosla, *The Indian Constitution*, New Delhi, OUP (Short Introduction), 2012.
- Suresh Kumar, Somnath Verma, Gulshan Rai, *Indian Constitution*, JBD Publication, Jalandhar, Punjab, 2022.
- Suresh Kumar, Somnath Verma, Gulshan Rai, *Indian Politics*, JBD Publication, Jalandhar, Punjab, 2022.


08/08/2023